

Appendix B – Reference Materials

- *Update #2 to the Technical Drainage Study for Highline: Village 21 – Parcel I*; Prepared by Kimley-Horn. June 2020



**Update to the
Technical Drainage Study
for**

***HIGHLINE
VILLAGE 21– PARCEL I***

Date Prepared:
May 2021

Prepared for:
Lennar
9275 W Russell Rd, Suite 400
Las Vegas, NV 89148
702.821.4651

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600

Kimley»Horn

CITY OF LAS VEGAS			DATE:
INTER-OFFICE MEMORANDUM			May 26, 2021
TO: Land Development Services Department of Building & Safety			FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:		COPIES TO:
	Highline – Summerlin West Village 21 - Parcel I – Update #1		Kimley Horn and Associates, Inc.
Cross Streets:	Carriage Hill Drive and Redpoint Drive		Lennar, Robert Flaxa
File Number:	F:\Depot\DSMemos\DS5201D.doc		Bart Anderson, P.E., DevCo
Parcel Number:	137-26-112-001		CCRFC
Zoning Action:	TMP-77187		CCPW
FEMA Flood Zone	YES	NO X	
Proposed Storm Drain	YES X	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	10/14/2019 & 10/31/2019	11/18/2019	Not Approved	\$400.00	3608643: \$400
2 nd Submittal	12/16/2019	1/7/2020	Conditional Approval	\$400.00	3677594: \$400
CCPW & CCRFC	6/3/2020	6/4/2020	Concurrence Recv'd	N/C	N/C
3 rd Submittal	5/12/2021	5/26/2021	See Comments Below	\$100.00	4287738: \$100
			TOTAL FEES (LDDRS):	\$900.00	----

REMARKS:

3rd Submittal: Update #1 to revise the connection of the onsite mainline storm drain to the As-Built 42"-RCP stub to the adjacent Beltway Channel and Adjust the GFF of Lots 11, 69, 83, 136, 161, 162, 202 and 203

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

1. The subject development is under the premise of flood protection by the improved *Carriage Hill Drive* with a regional storm drain to the west, *Redpoint Drive* to the south and the *Modified Beltway Channel* (from *Summerlin Parkway* to the *NV Energy Facility*) to the east. No occupancy permit of the houses will be issued prior to the substantial buildout of the perimeter facilities.
2. All drainage easements must be public drainage easements to be privately maintained and common lots to be labeled on the grading plans and to be dedicated as such in the final map.
3. Provide a note on the grading plans: All Onsite Storm Drains and the associated facilities are Privately Owned and to be Privately Maintained by the HOA.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the Nevada Division of Environmental Protection a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

END OF REMARKS
HDR/AYS

T/R/S: T20S/R59E/26
AREA K-26

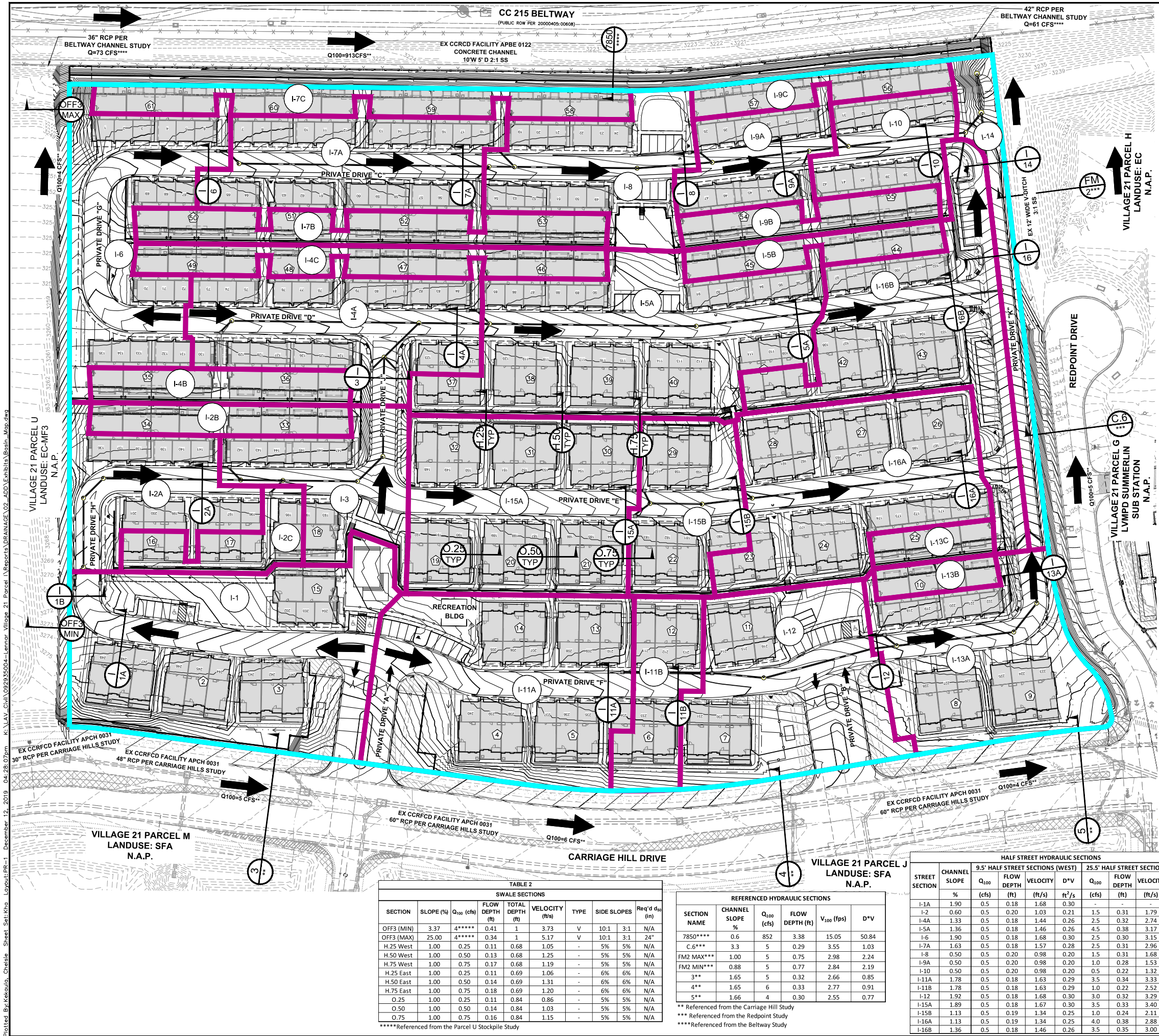
GARAGE #	FF	High	Low	Criteria	Depth	Freeboard	Section #	Remarks
Sheet								
1	50.80	50.69	50.13	0.76	0.19	0.11	I6E	Prorated Flow
2	50.30	50.13	49.56	0.76	0.21	0.13	I6E	Prorated Flow
3	49.88	49.56	49.26	0.76	0.23	0.23	I6E	Prorated Flow
4	49.30	49.05	48.73	0.76	0.26	0.12	I6E	Prorated Flow
5	48.97	48.73	48.30	0.76	0.28	0.06	I6E	Prorated Flow
6	48.63	48.30	47.94	0.76	0.30	0.10	I6E	Prorated Flow
7	47.73	47.44	47.07	0.76	0.03	0.62	I7AE	Prorated Flow
8	47.23	47.07	46.68	0.76	0.05	0.44	I7AE	Prorated Flow
9	46.98	46.68	46.33	0.76	0.08	0.53	I7AE	Prorated Flow
10	46.23	46.12	45.77	0.76	0.10	0.28	I7AE	Prorated Flow
11	45.90	45.77	45.37	0.76	0.13	0.25	I7AE	Prorated Flow
12	45.48	45.37	45.01	0.76	0.15	0.18	I7AE	Prorated Flow
13	44.83	44.52	44.15	0.76	0.18	0.33	I7AE	Prorated Flow
14	44.50	44.15	43.72	0.76	0.21	0.32	I7AE	Prorated Flow
15	44.08	43.72	43.41	0.76	0.23	0.28	I7AE	Prorated Flow
16	43.50	43.20	42.84	0.76	0.26	0.16	I7AE	Prorated Flow
17	43.17	42.84	42.45	0.76	0.28	0.14	I7AE	Prorated Flow
18	42.83	42.45	42.13	0.76	0.31	0.14	I7AE	Prorated Flow
19	42.00	41.77	41.57	0.76	0.03	0.54	I8E	Prorated Flow
20	42.00	41.57	41.41	0.76	0.07	0.67	I8E	Prorated Flow
21	42.00	41.41	41.31	0.76	0.10	0.76	I8E	Prorated Flow
22	41.50	41.25	41.16	0.76	0.14	0.35	I8E	Prorated Flow
23	41.50	41.16	41.06	0.76	0.17	0.38	I8E	Prorated Flow
24	41.50	41.06	40.94	1.50	0.21	0.41	I8E	Prorated Flow
25	40.80	40.53	40.44	0.76	0.05	0.56	I9AE	Prorated Flow
26	40.80	40.44	40.34	0.76	0.09	0.55	I9AE	Prorated Flow
27	40.63	40.34	40.24	0.76	0.14	0.39	I9AE	Prorated Flow
28	40.63	40.19	40.09	0.76	0.19	0.45	I9AE	Prorated Flow
29	40.30	40.09	39.98	0.76	0.23	0.12	I9AE	Prorated Flow
30	40.30	39.98	39.90	0.76	0.28	0.14	I9AE	Prorated Flow
31	40.13	39.76	39.67	0.76	0.04	0.68	I0E	Prorated Flow
32	40.13	39.67	39.57	0.76	0.07	0.69	I0E	Prorated Flow
33	39.80	39.57	39.48	0.76	0.11	0.39	I0E	Prorated Flow
34	39.80	39.42	39.32	0.76	0.15	0.47	I0E	Prorated Flow
35	39.63	39.32	39.18	0.76	0.18	0.32	I0E	Prorated Flow
36	39.63	39.18	39.04	0.76	0.22	0.39	I0E	Prorated Flow
37	40.50	40.06	39.95	0.76	0.20	0.42	I10W	
38	40.50	40.17	40.06	0.76	0.20	0.31	I10W	
39	40.83	40.26	40.17	0.76	0.20	0.55	I10W	
40	40.83	40.41	40.31	0.76	0.20	0.40	I10W	
41	41.00	40.51	40.41	0.76	0.20	0.47	I10W	
42	41.00	40.60	40.51	0.76	0.20	0.38	I10W	
43	41.33	40.83	40.73	0.76	0.20	0.48	I9AW	
44	41.33	40.93	40.83	0.76	0.20	0.38	I9AW	
45	41.50	41.03	40.93	0.76	0.20	0.45	I9AW	
46	41.50	41.17	41.08	0.76	0.20	0.31	I9AW	
47	41.83	41.26	41.17	0.76	0.20	0.55	I9AW	
48	41.83	41.36	41.26	0.76	0.20	0.45	I9AW	
49	42.33	41.87	41.78	0.76	0.20	0.44	I8W	
50	42.33	41.98	41.87	0.76	0.20	0.33	I8W	

GARAGE #	FF	High	Low	Criteria	Depth	Freeboard	Section #	Remarks
51	42.33	42.04	41.98	0.76	0.20	0.27	I8W	
52	42.58	42.30	42.14	0.76	0.20	0.26	I8W	
53	42.83	42.53	42.30	0.76	0.20	0.28	I8W	
54	43.00	42.80	42.53	0.76	0.20	0.18	I8W	
55	43.83	43.59	43.24	0.76	0.20	0.22	I7AW	
56	44.17	43.99	43.59	0.76	0.20	0.16	I7AW	
57	44.50	44.34	43.99	0.76	0.20	0.14	I7AW	
58	45.08	44.91	44.55	0.76	0.20	0.15	I7AW	
59	45.33	45.30	44.91	0.76	0.20	0.01	I7AW	
60	45.83	45.66	45.30	0.76	0.20	0.15	I7AW	
61	46.58	46.50	46.16	0.76	0.20	0.06	I7AW	
62	47.00	46.90	46.50	0.76	0.20	0.08	I7AW	
63	47.50	47.27	46.90	0.76	0.20	0.21	I7AW	
64	48.33	48.07	47.71	0.76	0.20	0.24	I7AW	
65	48.50	48.47	48.07	0.76	0.20	0.01	I7AW	
66	49.00	48.82	48.47	0.76	0.20	0.16	I7AW	
67	49.58	49.42	49.03	0.76	0.20	0.14	I6W	
68	50.00	49.78	49.42	0.76	0.20	0.20	I6W	
69	50.33	50.14	49.78	0.76	0.20	0.17	I6W	
70	56.33	56.16	55.90	0.76	0.00	0.55	I6E	Prorated Flow
71	56.50	56.32	56.16	0.76	0.02	0.53	I6E	Prorated Flow
72	56.50	56.35	56.32	0.76	0.03	0.47	I6E	Prorated Flow
73	56.50	56.30	56.15	0.76	0.03	0.53	I4AE	Prorated Flow
74	56.33	56.15	55.88	0.76	0.05	0.45	I4AE	Prorated Flow
75	56.17	55.88	55.63	0.76	0.08	0.51	I4AE	Prorated Flow
76	55.50	55.33	55.06	0.76	0.11	0.33	I4AE	Prorated Flow
77	55.33	55.06	54.78	0.76	0.14	0.38	I4AE	Prorated Flow
78	55.00	54.78	54.54	0.76	0.16	0.28	I4AE	Prorated Flow
79	54.43	54.19	53.94	0.76	0.19	0.24	I4AE	Prorated Flow
80	54.27	53.94	53.66	0.76	0.22	0.28	I4AE	Prorated Flow
81	53.93	53.66	53.41	0.76	0.24	0.16	I4AE	Prorated Flow
82	53.60	53.26	53.02	0.76	0.27	0.18	I4AE	Prorated Flow
83	53.27	53.02	52.74	0.76	0.30	0.04	I4AE	Prorated Flow
84	53.10	52.74	52.49	0.76	0.32	0.09	I4AE	Prorated Flow
85	52.50	52.15	51.90	0.76	0.03	0.67	I5AE	Prorated Flow
86	52.00	51.90	51.63	0.76	0.06	0.35	I5AE	Prorated Flow
87	51.83	51.63	51.37	0.76	0.10	0.39	I5AE	Prorated Flow
88	51.50	51.22	50.97	0.76	0.13	0.40	I5AE	Prorated Flow
89	51.33	50.97	50.69	0.76	0.16	0.42	I5AE	Prorated Flow
90	50.83	50.69	50.43	0.76	0.19	0.14	I5AE	Prorated Flow
91	49.30	49.04	48.77	0.76	0.22	0.19	I5AE	Prorated Flow
92	49.13	48.77	48.48	0.76	0.26	0.23	I5AE	Prorated Flow
93	48.80	48.48	48.23	0.76	0.29	0.12	I5AE	Prorated Flow
94	48.40	48.08	47.83	0.76	0.32	0.06	I5AE	Prorated Flow
95	48.23	47.83	47.56	0.76	0.35	0.08	I5AE	Prorated Flow
96	48.07	47.56	47.29	0.76	0.38	0.12	I5AE	Prorated Flow
97	47.20	46.93	46.68	0.76	0.05	0.54	I16BE	Prorated Flow
98	47.03	46.68	46.39	0.76	0.11	0.52	I16BE	Prorated Flow
99	46.70	46.39	46.14	0.76	0.16	0.37	I16BE	Prorated Flow
100	46.20	45.99	45.74	0.76	0.21	0.17	I16BE	Prorated Flow
101	46.03	45.74	45.45	0.76	0.27	0.14	I16BE	Prorated Flow

GARAGE #	FF	High	Low	Criteria	Depth	Freeboard	Section #	Remarks
102	45.70	45.45	45.18	0.76	0.31	0.01	I16BE	Prorated Flow
103	46.43	46.16	45.87	0.76	0.18	0.29	I16BW	
104	46.60	46.47	46.16	0.76	0.18	0.15	I16BW	
105	46.93	46.74	46.47	0.76	0.18	0.21	I16BW	
106	47.73	47.33	47.05	0.76	0.18	0.42	I16BW	
107	47.90	47.63	47.33	0.76	0.18	0.29	I16BW	
108	48.23	47.90	47.63	0.76	0.18	0.35	I16BW	
109	48.73	48.48	48.21	0.76	0.20	0.23	I5AW	
110	48.90	48.80	48.48	0.76	0.20	0.08	I5AW	
111	49.23	49.06	48.80	0.76	0.20	0.15	I5AW	
112	50.08	49.83	49.61	0.76	0.20	0.23	I5AW	
113	50.33	50.10	49.83	0.76	0.20	0.21	I5AW	
114	50.96	50.37	50.10	0.76	0.20	0.57	I5AW	
115	51.28	50.96	50.68	0.76	0.20	0.30	I5AW	
116	51.53	51.26	50.96	0.76	0.20	0.25	I5AW	
117	51.70	51.53	51.26	0.76	0.20	0.15	I5AW	
118	52.38	52.11	51.84	0.76	0.20	0.25	I5AW	
119	52.63	52.42	52.11	0.76	0.20	0.19	I5AW	
120	53.13	52.68	52.42	0.76	0.20	0.43	I5AW	
121	53.63	53.25	52.99	0.76	0.20	0.36	I4AW	
122	53.80	53.56	53.25	0.76	0.20	0.22	I4AW	
123	54.13	53.82	53.56	0.76	0.20	0.29	I4AW	
124	55.38	55.16	54.98	0.76	0.20	0.20	I4AW	
125	55.80	55.44	55.16	0.76	0.20	0.34	I4AW	
126	56.13	55.68	55.44	0.76	0.20	0.43	I4AW	
127	56.38	56.08	55.83	0.76	0.20	0.28	I4AW	
128	56.63	56.31	56.08	0.76	0.20	0.30	I4AW	
129	56.80	56.61	56.31	0.76	0.20	0.17	I4AW	
130	57.33	57.03	56.92	0.76	0.20	0.28	I4AW	
131	57.50	57.01	57.04	0.76	0.18	0.51	I6W	
132	57.33	57.01	56.88	0.76	0.18	0.34	I6W	
133	57.00	56.74	56.47	0.76	0.18	0.28	I6W	
134	56.83	56.43	56.03	0.76	0.18	0.42	I6W	
135	56.50	56.03	55.67	0.76	0.18	0.49	I6W	
136	66.67	66.14	65.90	0.76	0.16	0.59	I2AE	Prorated Flow
137	66.33	65.90	65.72	0.76	0.19	0.43	I2AE	Prorated Flow
138	66.08	65.72	65.61	0.76	0.22	0.30	I2AE	Prorated Flow
139	65.83	65.54	65.43	0.76	0.25	0.17	I2AE	Prorated Flow
140	65.83	65.43	65.31	0.76	0.28	0.22	I2AE	Prorated Flow
141	65.67	65.31	65.19	0.76	0.31	0.12	I2AE	Prorated Flow
142	65.30	65.04	64.92	0.76	0.03	0.58	I2E	Prorated Flow
143	65.30	64.92	64.80	0.76	0.06	0.64	I2E	Prorated Flow
144	65.13	64.80	64.69	0.76	0.09	0.53	I2E	Prorated Flow
145	64.80	64.62	64.51	0.76	0.12	0.32	I2E	Prorated Flow
146	64.63	64.51	64.38	0.76	0.15	0.20	I2E	Prorated Flow
147	64.63	64.38	64.27	0.76	0.18	0.27	I2E	Prorated Flow
148	63.90	63.79	63.59	0.76	0.04	0.42	I15AE	Prorated Flow
149	63.73	63.59	63.31	0.76	0.07	0.37	I15AE	Prorated Flow
150	63.40	63.31	63.01	0.76	0.11	0.25	I15AE	Prorated Flow
151	62.80	62.59	62.21	0.76	0.15	0.30	I15AE	Prorated Flow
152	62.30	62.21	61.78	0.76	0.18	0.10	I15AE	Prorated Flow
153	61.88	61.78	61.40	0.76	0.22	0.04	I15AE	Prorated Flow
154	61.23	60.97	60.60	0.76	0.26	0.13	I15AE	Prorated Flow
155	60.90	60.60	60.19	0.76	0.29	0.09	I15AE	Prorated Flow

GARAGE #	FF	High	Low	Criteria	Depth	Freeboard	Section #	Remarks
156	60.48	60.19	59.79	0.76	0.33	0.01	I15AE	Prorated Flow
157	59.60	59.35	58.98	0.76	0.06	0.50	I15BE	Prorated Flow
158	59.10	58.98	58.54	0.76	0.13	0.25	I15BE	Prorated Flow
159	58.68	58.54	58.14	0.76	0.19	0.14	I15BE	Prorated Flow
160	57.60	57.43	57.21	0.76	0.04	0.47	I16AE	Prorated Flow
161	57.27	57.21	56.94	0.76	0.08	0.27	I16AE	Prorated Flow
162	57.27	56.94	56.72	0.76	0.13	0.46	I16AE	Prorated Flow
163	56.60	56.47	56.24	0.76	0.17	0.17	I16AE	Prorated Flow
164	56.43	56.24	55.98	0.76	0.21	0.15	I16AE	Prorated Flow
165	56.10	55.98	55.76	0.76	0.25	0.00	I16AE	Prorated Flow
166	55.80	55.50	55.28	0.76	0.29	0.09	I16AE	Prorated Flow
167	55.63	55.28	55.02	0.76	0.34	0.06	I16AE	Prorated Flow
168	55.47	55.02	54.79	0.76	0.38	0.07	I16AE	Prorated Flow
169	56.08	55.48	55.40	0.76	0.19	0.60	I16AW	
170	56.08	55.75	55.48	0.76	0.19	0.33	I16AW	
171	56.33	55.96	55.75	0.76	0.19	0.37	I16AW	
172	56.50	56.29	56.08	0.76	0.19	0.21	I16AW	
173	56.83	56.61	56.29	0.76	0.19	0.22	I16AW	
174	57.00	56.74	56.61	0.76	0.19	0.26	I16AW	
175	57.63	57.24	57.02	0.76	0.19	0.39	I16AW	
176	57.80	57.50	57.24	0.76	0.19	0.30	I16AW	
177	58.13	57.73	57.50	0.76	0.19	0.40	I16AW	
178	58.63	58.27	58.05	0.76	0.19	0.36	I15BW	
179	58.80	58.53	58.27	0.76	0.19	0.27	I15BW	
180	59.13	58.80	58.53	0.76	0.19	0.33	I15BW	
181	59.68	59.45	48.98	0.76	0.19	0.23	I15BW	
182	60.10	59.89	59.45	0.76	0.19	0.21	I15BW	
183	60.43	60.27	59.89	0.76	0.19	0.16	I15BW	
184	61.28	61.06	60.68	0.76	0.20	0.20	I15AW	
185	61.70	61.50	61.06	0.76	0.20	0.18	I15AW	
186	62.03	61.87	61.50	0.76	0.20	0.14	I15AW	
187	62.88	62.65	62.29	0.76	0.20	0.21	I15AW	
188	63.30	63.10	62.65	0.76	0.20	0.18	I15AW	
189	63.63	63.48	63.10	0.76	0.20	0.13	I15AW	
190	64.38	64.12	63.85	0.76	0.20	0.24	I15AW	
191	64.63	64.35	64.12	0.76	0.20	0.26	I15AW	
192	64.80	64.50	64.35	0.76	0.20	0.28	I15AW	
193	65.50	65.16	65.04	0.76	0.20	0.32	I2AW	
194	65.50	65.28	65.16	0.76	0.20	0.20	I2AW	
195	66.00	65.39	65.28	0.76	0.20	0.59	I2AW	
196	66.03	65.66	65.62	0.76	0.20	0.35	I2AE	
197	66.20	65.80	65.66	0.76	0.20	0.38	I2AE	
198	66.20	65.92	65.80	0.76	0.20	0.26	I2AE	
199	66.53	66.17	66.05	0.76	0.20	0.34	I2AE	
200	66.70	66.31	66.17	0.76	0.20	0.37	I2AE	
201	66.70	66.47	66.31	0.76	0.20	0.21	I2AE	
202	74.33	74.07	73.72	0.76	0.02	0.61	I1E	Prorated Flow
203	74.67	74.47	74.07	0.76	0.03	0.52	I1E	Prorated Flow
204	75.00	74.74	74.47	0.76	0.05	0.54	I1E	Prorated Flow
205	72.03	71.85	71.50	0.76	0.22	0.12	I11AE	Prorated Flow
206	71.70	71.50	71.09	0.76	0.25	0.09	I11AE	Prorated Flow
207	71.28	71.09	70.73	0.76	0.27	0.03	I11AE	Prorated Flow
208	70.63	70.34	69.98	0.76	0.29	0.08	I11AE	Prorated Flow
209	70.30	69.98	69.54	0.76	0.32	0.07	I11AE	Prorated Flow

GARAGE #	FF	High	Low	Criteria	Depth	Freeboard	Section #	Remarks
210	69.88	69.54	69.22	0.76	0.34	0.04	I11AE	Prorated Flow
211	69.10	68.83	68.48	0.76	0.07	0.50	I11BE	Prorated Flow
212	68.60	68.48	68.07	0.76	0.15	0.21	I11BE	Prorated Flow
213	68.18	68.07	67.71	0.76	0.22	0.05	I11BE	Prorated Flow
214	67.60	67.45	67.13	0.76	0.04	0.46	I12E	Prorated Flow
215	67.43	67.13	66.91	0.76	0.07	0.54	I12E	Prorated Flow
216	67.10	66.91	66.73	0.76	0.11	0.36	I12E	Prorated Flow
217	65.03	64.82	64.46	0.76	0.02	0.54	I13E	Prorated Flow
218	64.70	64.46	64.05	0.76	0.05	0.52	I13E	Prorated Flow
219	64.28	64.05	63.70	0.76	0.07	0.47	I13E	Prorated Flow
220	63.70	63.38	63.12	0.76	0.10	0.51	I13E	Prorated Flow
221	63.20	63.12	62.73	0.76	0.12	0.22	I13E	Prorated Flow
222	63.03	62.73	62.36	0.76	0.14	0.39	I13E	Prorated Flow
223	64.00	62.30	61.63	0.76	0.18	1.72	I13W	
224	64.00	62.89	62.30	0.76	0.18	1.13	I13W	
225	64.00	63.32	62.89	0.76	0.18	0.70	I13W	
226	65.58	64.07	63.74	0.76	0.18	1.53	I13W	
227	66.00	64.57	64.07	0.76	0.18	1.45	I13W	
228	66.50	64.94	64.57	0.76	0.18	1.58	I13W	
229	68.68	67.96	67.73	0.76	0.18	0.74	I12W	
230	68.68	68.14	67.96	0.76	0.18	0.56	I12W	
231	68.68	68.44	68.14	0.76	0.18	0.26	I12W	
232	69.43	69.19	68.83	0.76	0.18	0.26	I11BW	
233	69.60	69.59	69.19	0.76	0.18	0.03	I11BW	
234	70.10	69.95	69.59	0.76	0.20	0.13	I11AW	
235	70.93	70.69	70.34	0.76	0.20	0.22	I11AW	
236	71.27	71.11	70.69	0.76	0.20	0.14	I11AW	
237	71.60	71.46	71.11	0.76	0.20	0.12	I11AW	
238	72.48	72.21	71.85	0.76	0.20	0.25	I11AW	
239	72.73	72.57	72.21	0.76	0.20	0.14	I11AW	
240	73.23	73.09	72.57	0.76	0.20	0.12	I11AW	
241	75.10	74.87	74.49	0.76	0.20	0.21	I1	
242	74.60	74.49	74.06	0.76	0.20	0.09	I1	
243	74.18	74.06	73.76	0.76	0.20	0.10	I1	
244	73.60	73.39	73.01	0.76	0.20	0.19	I1	
245	73.10	73.01	72.57	0.76	0.20	0.07	I1	
246	72.68	72.57	72.20	0.76	0.20	0.09	I1	
247	72.10	71.86	71.41	0.76	0.20	0.22	I1	
248	71.43	71.41	70.88	0.76	0.20	0.00	I1	
249	71.43	70.88	70.42	0.76	0.20	0.53	I1	



LEGEND

- XXX BASIN ID
- BASIN BOUNDARY
- PRORATED BASIN BOUNDARY
- FLOW ARROW
- SECTION ID
- BUILDING NUMBER

GRAPHIC SCALE IN FEET
0 25 50 100
SCALE 1" = 50'

North Arrow

ULTIMATE CONDITION PRORATED FLOW SUMMARY

Ultimate Onsites			
SUBBASIN	Q ₁₀₀ (cfs)	AREA (ac)	CFS/ACRE
I-1	5	18.69	3.26
Ultimate Onsite Prorated Basins			
SUBBASIN	Q ₁₀₀ (cfs)	AREA (ac)	CFS/ACRE
I-1	5	1.56	3.26
I-2A	2	0.56	3.26
I-2B	1	0.23	3.26
I-2C	1	0.25	3.26
I-3	1.5	0.53	3.26
I-4A	3	0.86	3.26
I-4B	1	0.26	3.26
I-4C	1	0.40	3.26
I-5A	5	1.41	3.26
I-5B	1	0.22	3.26
I-6	3	0.88	3.26
I-7A	2.5	0.78	3.26
I-7B	1.5	0.45	3.26
I-7C	1	0.42	3.26
I-8	2	0.65	3.26
I-9A	1	0.39	3.26
I-9B	1	0.25	3.26
I-9C	1	0.22	3.26
I-10	1	0.35	3.26
I-11A	4	1.34	3.26
I-11B	1	0.36	3.26
I-12	3	1.02	3.26
I-13A	3	0.93	3.26
I-13B	0	0.11	3.26
I-13C	0	0.12	3.26
I-14	1	0.26	3.26
I-15A	4	1.15	3.26
I-15B	1.5	0.51	3.26
I-16A	4	1.11	3.26
I-16B	4	1.11	3.26
TOTAL	61	18.69	NA

DROP INLET SUMMARY TABLE

DROP INLET ID	PLAN DI #	Q ₁₀₀ (cfs)	SLOPE (%)	FLOW DEPTH (ft)	Q _{INT} (cfs)	Q _{INT} (cfs)	DI TYPE
I-1A	DI 1, DI 3	2.50	2.90	0.27	2.15	0.35	NEENAH R-3501-R
I-1B	DI 2, DI 4	0.35	2.90	0.13	0.35	0.00	NEENAH R-3501-R
I-2A	DI 7	0.50	0.60	0.21	0.49	0.01	NEENAH R-3501-R
I-2A1	DI 5	1.50	0.60	0.30	1.29	0.21	NEENAH R-3501-R
I-2A2	DI 6	0.21	0.60	0.15	0.21	0.00	NEENAH R-3501-R
I-3	DI 9, DI 11	1.25	5.67	0.19	1.25	0.00	NEENAH R-3501-R
I-4	DI 15	0.50	1.33	0.18	0.50	0.00	NEENAH R-3501-R
I-4A1	DI 13	2.50	1.33	0.32	2.08	0.42	NEENAH R-3501-R
I-4A2	DI 14	0.42	1.33	0.17	0.42	0.00	NEENAH R-3501-R
I-5A	DI 16	0.50	1.36	0.18	0.50	0.00	NEENAH R-3501-R
I-5A1	DI 17	4.50	1.36	0.38	3.24	1.26	NEENAH R-3501-R
I-5A2	DI 18	1.26	1.36	0.25	1.19	0.07	NEENAH R-3501-R
I-6A	DI 30	2.50	1.90	0.30	2.15	0.35	NEENAH R-3501-R
I-6B	DI 29	0.35	1.90	0.15	0.35	0.00	NEENAH R-3501-R
I-7A	DI 28	0.50	1.63	0.17	0.50	0.00	NEENAH R-3501-R
I-7A1	DI 27	2.50	1.63	0.31	2.12	0.38	NEENAH R-3501-R
I-7A2	DI 26	0.38	1.63	0.15	0.38	0.00	NEENAH R-3501-R
I-8A	DI 25	1.50	0.50	0.31	1.27	0.23	NEENAH R-3501-R
I-8B	DI 24	0.23	0.50	0.16	0.23	0.00	NEENAH R-3501-R
I-9A	DI 23	0.50	0.50	0.21	0.49	0.01	NEENAH R-3501-R
I-9A1	DI 22	1.00	0.50	0.27	0.91	0.09	NEENAH R-3501-R
I-9A2	DI 21	0.09	0.50	0.11	0.09	0.00	NEENAH R-3501-R
I-10 (SUMP)	DI 19	1.50	N/A	0.20	1.50	0.00	5' TYPE DM2
I-11A1	DI 10	3.50	1.78	0.34	2.77	0.73	NEENAH R-3501-R
I-11A2	DI 8	0.73	1.78	0.19	0.73	0.00	NEENAH R-3501-R
I-11B1	DI 39	1.00	1.78	0.22	0.98	0.02	NEENAH R-3501-R
I-11B2	DI 38	0.02	1.78	0.05	0.02	0.00	NEENAH R-3501-R
I-12A	DI 37	3.00	1.92	0.32	2.48	0.52	NEENAH R-3501-R
I-12B	DI 36	0.52	1.92	0.17	0.52	0.00	NEENAH R-3501-R
I-13A N	DI 34	3.00	3.90	0.25	2.94	0.06	10' TYPE DM2
I-13A S	DI 35	0.50	3.90	0.15	0.50	0.00	5' TYPE DM2
I-15A	DI 33	0.50	1.89	0.17	0.50	0.00	NEENAH R-3501-R
I-15A1	DI 32	3.50	1.89	0.33	2.79	0.71	NEENAH R-3501-R
I-15A2	DI 31	0.71	1.89	0.19	0.71	0.00	NEENAH R-3501-R
I-15B1	DI 40	1.00	1.13	0.24	0.96	0.04	NEENAH R-3501-R
I-15B2	DI 41	0.04	1.13	0.07	0.04	0.00	NEENAH R-3501-R
I-16 (SUMP)	DI 20	9	N/A	0.47	9.00	0.00	7.5' TYPE DM2

TABLE 2 SWALE SECTIONS

SECTION	SLOPE (%)	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	TOTAL DEPTH (ft)	VELOCITY (ft/s)	TYPE	SIDE SLOPES	Req'd d ₅₀ (in)
OFF3 (MIN)	3.37	4*****	0.41	1	3.73	V	10:1	3:1
OFF3 (MAX)	25.00	4*****	0.34	1	5.17	V	10:1	3:1
H.25 West	1.00	0.25	0.11	0.68	1.05	-	5%	5%
H.50 West	1.00	0.50	0.13	0.68	1.25	-	5%	5%
H.75 West	1.00	0.75	0.17	0.68	1.19	-	5%	5%
H.25 East	1.00	0.25	0.11	0.69	1.06	-	6%	6%
H.50 East	1.00	0.50	0.14	0.69	1.31	-	6%	6%
H.75 East	1.00	0.75	0.18	0.69	1.20	-	6%	6%
0.25	1.00	0.25	0.11	0.84	0.86	-	5%	5%
0.50	1.00	0.50	0.14	0.84	1.03	-	5%	5%
0.75	1.00	0.75	0.16	0.84	1.15	-	5%	5%

REFERENCED HYDRAULIC SECTIONS

SECTION NAME	CHANNEL SLOPE %	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	V ₁₀₀ (fps)	D*V
7850****	0.6	852	3.38	15.05	50.84
C.6****	3.3	5	0.29	3.55	1.03
FM2 MAX****	1.00	5	0.75	2.98	2.24
FM2 MIN****	0.88	5	0.77	2.84	2.19
3**	1.65	5	0.32	2.66	0.85
4**	1.65	6	0.33	2.77	0.91
5**	1.66	4	0.30	2.55	0.77

HALF STREET HYDRAULIC SECTIONS

STREET SECTION	CHANNEL SLOPE %	9.5' HALF STREET SECTIONS (WEST)				25.5' HALF STREET SECTIONS (EAST)			
		Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V	Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V
I-1A	1.90	0.5	0.18	1.68	0.30	1.5	0.31	1.79	0.55
I-2	0.60	0.5	0.20	1.03	0.21	1.5	0.32	2.74	0.88
I-4A	1.33	0.5	0.18	1.44	0.26	4.5	0.38	3.17	1.20
I-5A	1.36	0.5	0.18	1.46	0.26	4.5	0.38	3.17	1.20
I-6	1.90	0.5	0.18	1.68	0.30	2.5	0.30	3.15	0.95
I-7A	1.63	0.5	0.18	1.57	0.28	2.5	0.31	2.96	0.92
I-8	0.50	0.5	0.20	0.98	0.20	1.5	0.31	1.68	0.52
I-9A	0.50	0.5	0.20	0.98	0.20	1.0	0.28	1.53	0.43
I-10	0.50	0.5	0.20	0.98	0.20	0.5	0.22	1.32	0.29
I-11A	1.78	0.5	0.18	1.63	0.29	3.5	0.34	3.33	1.13
I-11B	1.78	0.5	0.18	1.63	0.29	1.0	0.22	2.52	0.55
I-12	1.92	0.5	0.18	1.68	0.30	3.0	0.32	3.29	1.05
I-15A	1.89	0.5	0.18	1.67	0.30	3.5	0.33	3.40	1.12
I-15B	1.13	0.5	0.19	1.34	0.25	1.0	0.24	2.11	0.51
I-16A	1.13	0.5	0.19	1.34	0.25	4.0	0.38	2.88	1.09
I-16B	1.36	0.5	0.18	1.46	0.26	3.5	0.35	3.00	1.05

STREET HYDRAULIC SECTIONS

STREET SECTION	CHANNEL SLOPE %	35' STREET SECTIONS			
		Q ₁₀₀ (cfs)	FLOW DEPTH (ft)	VELOCITY (ft/s)	D*V
I-1B	2.90	5.0	0.26	3.18	0.83
I-3	5.67	2.5	0.20	3.63	0.73
I-13A N	3.90	3.0	0.30	3.79	1.14
I-13A S	3.90	0.5	0.16	3.52	0.56
I-14	1.00	1.0	0.27	1.76	0.48
I-16	4.90	8.5	0.38	5.23	1.99

Kimley»Horn

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3671 LAS VEGAS BOULEVARD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

KHA PROJECT 092935004

DATE 12/9/19

SCALE AS SHOWN

DESIGNED BY AD

DRAWN BY AD

CHECKED BY RRD

ULTIMATE CONDITION BASIN MAP

HIGHLINE VILLAGE 21 - PARCEL I

PREPARED FOR LENNAR HOMES

CITY OF LAS VEGAS

ULT-1

REVISIONS

NO.	DATE	BY

PROJECT CONTACTS

OWNER/DEVELOPER

GREYSTONE NEVADA, LLC
9275 W RUSSELL RD
LAS VEGAS, NEVADA 89148

CONTACT:

ROBERT FLAXA
(702) 821-4651

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NEVADA 89119

PROJECT ARCHITECT

PERLMAN ARCHITECTS
450 FREMONT STREET, SUITE 233
LAS VEGAS, NEVADA 89101

CONTACT:

ERIC HOPKINS, PE
(702) 623-7233

CONTACT:

MAY CADACIO
(702) 979-9900

PROJECT INFORMATION

A PORTION OF APN: 137-26-112-001

NUMBER OF LOTS: 1

ACREAGE: ±19.23 ACRES

ZONING: (P-C) PLANNED COMMUNITY DISTRICT

UNITS: 249

UTILITY PROVIDERS

WATER

LAS VEGAS VALLEY WATER DISTRICT

SEWER

CITY OF LAS VEGAS

ELECTRIC

NV ENERGY

SOLID WASTE DISPOSAL

REPUBLIC SERVICES

GAS

SOUTHWEST GAS

TELEPHONE

CENTURY LINK

COMMUNICATIONS

COX COMMUNICATIONS

LEGAL DESCRIPTION

A PORTION OF LOT 1 OF THAT CERTAIN FINAL MAP IN THE OFFICE OF SAID COUNTY RECORDER IN BOOK 123 OF PLATS, PAGE 36, RECORDED MAY 01, 2018, LOCATED WITHIN THE SECTIONS 14 THRU 17, 20 THRU 23, 26 THRU 29 AND 32 THRU 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AND SECTION 4, TOWNSHIP 21 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

PARCEL 1 WILL BE ESTABLISHED AS A SEPARATE LEGAL PARCEL BY THHC WITH THE VILLAGE 21 UNIT 3 FINAL MAP.

FLOOD ZONE NOTE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), AS SHOWN PER FEMA MAPS, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

GEOTECHNICAL NOTE

NO FISSURES WERE OBSERVED ON THE PROJECT SITE, WITH THE NEAREST FAULT APPROXIMATELY 7 MILES TO THE NORTHEAST, PER CLARK COUNTY SOIL GUIDELINES MAP. PROJECT SITE IS WITHIN "STANDARD GEOTECHNICAL CONSIDERATION AREA AND SPECIAL GEOTECHNICAL CONSIDERATION AREA". NO GROUNDWATER ENCOUNTERED AT A DEPTH OF 15 FT, BASED ON THE REVIEW OF WELLS DATA, STATIC WATER LEVEL WAS AT LEAST 515FT BELOW THE GROUND SURFACE.

UTILITY NOTE

KIMLEY-HORN AND ASSOCIATES TAKES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN HEREIN. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY OTHER PARTIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY THE LOCATIONS AND INVERTS OF THE EXISTING UTILITIES WITHIN THE VICINITY OF CONSTRUCTION ACTIVITIES. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER, PROJECT ARCHITECT, AND THE OWNER IMMEDIATELY.

GENERAL NOTES:

1. THIS SUBDIVISION IS A PART OF THE WEST SUMMERLIN VILLAGE 21 MASTER PLAN.

2. LANDSCAPING ON-SITE WILL BE MAINTAINED BY AN HOA

3. WATER POINT OF CONNECTION WILL COME OFF EXISTING WATER LINES FROM CARRIAGE HILL DRIVE

4. SEWER POINT OF CONNECTION WILL COME OFF EXISTING SEWER LINES AT THE SOUTHEAST CORNER OF THE PARCEL

5. ABOVE GROUND UTILITY BOXES SHALL NOT BE PLACED WITHIN TRAIL CORRIDORS

6. ONSITE STREETS, TRAILS, OPEN SPACES, AND DRAINAGE CORRIDORS ARE TO BE PRIVATE AND MAINTAINED BY THE HOA

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 7LV09345W6 (REVISED 2008)
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)

FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR.
T20S,R59E,S34

BASIS OF BEARING

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

CALL BEFORE YOU DIG
811

Call before you dig
UnderGround
1-702-432-5300

Call before you dig
AND OTHER INFORMATION
1-800-227-2600

CALL BEFORE YOU DIG
811

Call before you dig
UnderGround
1-702-432-5300

Call before you dig
AND OTHER INFORMATION
1-800-227-2600

Plotted By: Hopkins, Eric Sheet Set: KHA Layout: C01 December 16, 2020 05:43:40pm K:\LAV\Civil\092935004-Lennar Village 21 Parcel 1\CAD\PlanSheets\092935004-CV.dwg

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CIVIL IMPROVEMENT PLANS

FOR

HIGHLINE

VILLAGE 21 - PARCEL I

APN: 137-26-112-001

CITY OF LAS VEGAS, NEVADA

GROSS ACRES = 19.23

PROJECT SITE

KINDLE CORNER WAY

REDPOINT DR

FAR HILLS DR

ALTA DR

CC-215

SUMMERLIN PKWY

ANASAZI DR

TOWN CENTER DR

CARRIAGE HILLS DR

NORTH

PROJECT VICINITY MAP
NTS

FIRE FLOW INFORMATION

BUILDING TYPE	TYPE I	TYPE II	TYPE III
TYPE OF CONSTRUCTION	VB	VB	VB
TOTAL LIVING AREA (RESIDENTIAL SQ FT)	14,474	7,246	7,498
TOTAL FIRE AREA:	14,474	7,246	7,498
NUMBER OF STORIES:	2	2	2
TYPE IA OR IB CONSTRUCTION: AREA OF THREE (3) LARGEST FLOORS:			
BUILDING HEIGHT:	< 35'	< 35'	< 35'
HIGH-RISE BUILDING:	YES ____ NO_X_	YES ____ NO_X_	YES ____ NO_X_
MID-RISE BUILDING	YES ____ NO_X_	YES ____ NO_X_	YES ____ NO_X_
IBC USE GROUP:	R2	R2	R2
SPRINKLER SYSTEM:	YES_X_ NO ____	YES_X_ NO ____	YES_X_ NO ____
IF YES, SPECIFY TYPE: 13 ____ 13R ____ 13D ____	13R	13R	13R
NUMBER OF HYDRANTS INSTALLED:	0 OFFSITE, 22 ONSITE	0 OFFSITE, 22 ONSITE	0 OFFSITE, 22 ONSITE
FIRE FLOW ONSITE:	1,625 GPM AT 20psi	1,500 GPM AT 20psi	1,500 GPM AT 20psi
TOTAL FIRE FLOW:	1,625 GPM AT 20psi	1,500 GPM AT 20psi	1,500 GPM AT 20psi

CLV#: L20-00433

107Y5137

SHEET INDEX:

SEE SHEET C0.3

REFERENCE INFORMATION:

TECHNICAL DRAINAGE STUDY:

DS-05201

TRAFFIC STUDY:

TIA72292-3

ENTITLEMENTS:

SDC-77186, TMP-77187

CCPW:

CCRFCD:

APPROVALS

CITY OF LAS VEGAS

PLANS APPROVED
BY LAND DEVELOPMENT ON BEHALF
OF THE CITY ENGINEERS OFFICE
dguerra
Jan 07 2021

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS
CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND/OR
DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE
THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM
THE ADOPTED STANDARDS AND/OR SPECIFICATIONS, EXCEPT
THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM
STANDARD. THE ENGINEER SHALL RESOLVE ANY DEVIATION
OTHER THAN THOSE LISTED IN THE DEVIATIONS FROM STANDARD
IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND
SPECIFICATION, CLARK COUNTY AREA, NEVADA.

CITY ENGINEER

DATE

CITY OF LAS VEGAS

PLANS APPROVED
DEPT OF PLANNING
sgebeke
Jan 07 2021

THIS PLAN MEETS THE APPLICABLE
STANDARDS OF THE PLANNING DEPARTMENT

CITY OF LAS VEGAS PLANNING DEPT.

DATE

CITY OF LAS VEGAS FIRE DEPT.

DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT PLANNING AND ENGINEERING SERVICES

PROJECT NO. 137252

FIRST APPROVED DATE: 12/3/2020

WVMD-APPROVED FIRE FLOW: TOTAL 1625 GPM / ONSITE 1625 GPM

SHEETS: C0.2,C0.3,C3.1,C3.2,C3.3,C3.4,C3.5,C3.6,C3.7,C3.8,C9.4,C9.5

Armando Romo

09/16/20

DATE

NV ENERGY*

* NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

Umaria Figueroa

9/16/2020

DATE

CENTRAL TELEPHONE COMPANY, d/b/o CENTURY LINK*

* THE AFFIXED CENTRAL TELEPHONE COMPANY, d/b/o CENTURY LINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTIONS OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

Amelia Henderson

9/15/2020

DATE

SOUTHWEST GAS CORPORATION

KHA PROJECT
092935004

DATE
11/18/2020

SCALE AS SHOWN

DESIGNED BY
MK

DRAWN BY
MK

CHECKED BY
TC

COVER SHEET

HIGHLINE
VILLAGE 21 - PARCEL I
PREPARED FOR
LENNAR HOMES
CITY OF LAS VEGAS
NEVADA

1 OF 66 SHEETS

C0.1

REVISIONS

NO.	DATE	BY
1	09/04/2021	KHA

REUSE NO CONNECTION TO ANY FIELD CONDITION
ADJUST D/L TO GRADES AND EMBEDED DETAIL

Plotted By: Hopkins, Eric Sheet Set No. Layout C0.3 November 16, 2020 07:03:34pm K:\AY Civil\092935004-Lennar Village 21 Parcel 1\CAD\PlanSheets\092935004-M.dwg
This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CONSTRUCTION NOTES				UNIT	PUBLIC	PRIVATE
1	CONSTRUCT 30" ROLL CURB PER CCAUSD NO. 217.1.	LF	-	8540		
2	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216.	LF	-	755		
3	CONSTRUCT 6" CURB PER DETAIL 12 ON SHEET C9.3.	LF	-	1315		
4	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219.	LF	-	420		
5	10 LF TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL 6 ON SHEET C9.3.	LF	-	250		
6	CONSTRUCT 2" WDE CURB CUT PER DETAIL 8 ON SHEET C9.3	EA	-	-		
7	CONSTRUCT 8" WDE VALLEY GUTTER PER DETAIL 9 ON SHEET C9.3	SY	-	290		
8	CONSTRUCT 3" WDE VALLEY GUTTER PER DETAIL 5 ON SHEET C9.3	SY	-	210		
9	CONSTRUCT 5" THICK SIDEWALK (WIDTH PER PLAN) PER CCAUSD NO. 234.	SF	-	53735		
10	CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236	EA	-	14		
11	CONSTRUCT PCC DRIVEWAY PER DETAIL 3 ON SHEET C9.3.	SF	-	23040		
12	CONSTRUCT LIGHT AC PAVEMENT PER DETAIL 1 ON SHEET C9.3.	SY	-	1295		
13	CONSTRUCT HEAVY AC PAVEMENT PER DETAIL 2 ON SHEET C9.3.	SY	-	16450		
14	INSTALL 8" PVC UNDER SIDEWALK	EA	-	54		
15	CONSTRUCT STAIR RISER PER 2018 IBC, PROVIDE SUMMERLIN COMPLIANT HANDRAIL FOR 3 OR MORE STEPS.	SF	-	20		
16	CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, WITH DECORATIVE VIEW FENCE. PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).	LF	-	-		
17	CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).	LF	-	-		
18	INSTALL DECORATIVE WROUGHT IRON FENCE COMPLIANT WITH SUMMERLIN DESIGN STANDARDS.	SF	-	-		
19	INSTALL TWO (2) CMU DRAIN BLOCKS SIDE BY SIDE.	EA	-	117		
20	CONSTRUCT ACCESSIBLE RAMP CASE 1 PER DETAIL 13 ON SHEET C9.3 AND SUMMERLIN DESIGN STANDARDS	EA	-	4		
21	CONSTRUCT ACCESSIBLE RAMP CASE 2 PER DETAIL 14 ON SHEET C9.3 AND SUMMERLIN DESIGN STANDARDS	EA	-	3		
22	CONSTRUCT ACCESSIBLE RAMP CASE 3 PER CCAUSD NO. 235 AND SUMMERLIN DESIGN STANDARDS	EA	-	15		
23	CONSTRUCT ROCK RIP-RAP SWALE d50=X, T=X PER DETAIL x ON SHEET C9.3	SY	-	-		
24	OUTLET 6" STORM DRAIN THROUGH WALL AND SPLASH TO GRADE PER DETAIL X ON SHEET C9.3	EA	-	-		
25	INSTALL ROLL CURB DRAIN OUTLET	EA	-	25		
26	INSTALL 8" PVC DRAIN LINE WITH ROLL CURB DRAIN ADAPTOR	EA	-	26		
27	INSTALL PEDESTRIAN ACCESS GATE. PLANS & DETAILS BY OTHERS.	EA	-	6		
28	CONSTRUCT 16"x48" WALL OPENING PER DETAIL 19 ON SHEET C9.3	EA	-	2		
29	INSTALL WHEELS STOPS PER CCAUSD NO. 238 AND SUMMERLIN DESIGN STANDARDS	EA	-	67		

SEWER NOTES				UNIT	PUBLIC	PRIVATE
1	INSTALL 48" STANDARD MANHOLE WITH WATERTIGHT JOINTS (PER DCSWCS SD-1-, SD-3, SD-4, SD-5) WITH SINGLE 24" LID (PUBLIC)	EA	6	0		
2	INSTALL 8" PVC (SDR-35) SEWER MAIN (PRIVATE)	LF	0	3485		
3	INSTALL 48" SEWER MANHOLE PER DCSWCS SD-1-, SD-3, SD-4 (PRIVATE)	EA	0	20		
4	INSTALL 8" PVC (SDR-35) SEWER LATERAL WITH WYE PER DCSWCS SD-20 (PRIVATE)	LF	0	1240		
5	INSTALL 8" PVC (SDR-35) SEWER MAIN PER DCSWCS SD-15 AND SD-17 (PUBLIC)	LF	1090	0		

WATER & FIRE NOTES				UNIT	PUBLIC	PRIVATE
1	INSTALL FIRE HYDRANT ASSEMBLY & 6" GATE VALVE PER UDACS PLATE NO. 40 WITH THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	22		
4	INSTALL 8" PVC WATER LINE - C900, CLASS 150 PER UDACS PLATE NO. 17	LF	-	5325		
5	INSTALL 12" PVC WATER LINE - C900, CLASS 150 PER UDACS PLATE NO. 17	LF	115	-		
6	INSTALL 12"x 8" TEE WITH THRUST BLOCK PER UDACS PLATE NO. 31	EA	1	-		
8	INSTALL 8"x 6" TEE WITH THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	22		
9	INSTALL 8"x 8" TEE WITH THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	6		
10	INSTALL 6" OCTAVE ABOVE GROUND FIRE/DOMESTIC METER AND 8" COMPACT RPPA PER DETAIL 4 SHEET C9.4	EA	2	-		
13	INSTALL 12 x 8 REDUCER PER UDACS PLATE NO. 30	EA	2	-		
16	REMOVE EXISTING CAP & BLOW OFF & CONNECT TO EXISTING WATER LINE	EA	1	-		
17	INSTALL 8"x 4" TEE WITH WITH THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	61		
19	INSTALL GATE VALVE SIZE PER PLAN AND PER UDACS PLATES NO. 39 W/THRUST BLOCK PER UDACS PLATE NO. 30	EA	4	15		
20	INSTALL LOCATOR RIBBON THE ENTIRE LENGTH OF THE WATER LATERAL PER UDACS 2.17.01.B	LF	-	600		
21	INSTALL 5" BEND PER PLAN W/THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	5		
22	INSTALL 11.25" BEND PER PLAN W/THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	5		
23	INSTALL 22.5" BEND PER PLAN W/THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	3		
24	INSTALL 45" BEND PER PLAN W/THRUST BLOCK PER UDACS PLATE NO. 31	EA	-	9		
25	INSTALL 90" BEND PER PLAN W/THRUST BLOCK PER UDACS PLATE NO. 31	EA	3	3		
26	INSTALL 4" PVC C900 WATER LATERAL, STUB AND CAP AT FIRE RISER ROOM (FDC). SEE ARCHITECTURAL PLANS FOR CONNECTION.	LF	-	2460		
27	INSTALL 1.5" TYPE K WATER LATERAL W/ SERVICE SADDLE AND CORPORATION STOP PER UDACS PLATE NO. 4	LF	-	205		
28	INSTALL 2" TYPE K WATER LATERAL W/ SERVICE SADDLE AND CORPORATION STOP PER UDACS PLATE NO. 4	LF	-	110		
29	INSTALL 1.5" TYPE K WATER LATERAL (IRRIGATION) W/ SERVICE SADDLE AND CORPORATION STOP WITH 1.5" RPPA PER UDACS PLATE NO. 4 AND PLATE NO. 8	LF	-	5		
30	INSTALL 8" DIP WATER LINE - PER UDACS PLATE NO. 17	LF	125	-		
31	INSTALL 12"x 8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE NO. 34, 30, 39 AND SECTION 2.24.01B	EA	1	-		
32	FIRE RISER ROOM AND FDC, SEE ARCHITECTURAL PLANS FOR DETAIL	EA	-	61		
33	INSTALL 8" x 6" REDUCER PER UDACS PLATE NO. 30	EA	2	-		

STORM DRAIN NOTES				UNIT	PUBLIC	PRIVATE
1	INSTALL 18" RCP CLASS III STORM DRAIN PIPE	LF	-	3645		
2	INSTALL 24" RCP CLASS III STORM DRAIN PIPE	LF	-	400		
3	INSTALL 42" RCP CLASS III STORM DRAIN PIPE	LF	-	43		
4	INSTALL 48" TYPE I SDMH PER CCAUSD NO. 403	EA	-	28		
5	INSTALL 60" TYPE III SDMH PER CCAUSD NO. 403	EA	-	3		
6	INSTALL NEENAH TYPE R-3501 DROP INLET PER DETAIL 17 ON SHEET C9.3 WITH STORM WATER QUALITY MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421.	EA	-	37		
7	INSTALL TYPE DM2 DROP INLET PER DETAILS 16 ON SHEET C9.3 WITH STORM WATER QUALITY MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421.	EA	-	4		
8	INSTALL NDS 18" X 18" CATCH BASIN	EA	-	180		
10	INSTALL 8" PVC STORM DRAIN PIPE	LF	-	4375		
11	INSTALL 60" TYPE III SDMH WITH NEENAH GRATED LID PER CCAUSD NO. 403 AND NEENAH SPECIFICATIONS	EA	-	1		

SHEET INDEX		
SHEET NO	SHEET TITLE	DESC
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5	HORIZONTAL CONTROL PLAN 1 OF 8	C1.1
6	HORIZONTAL CONTROL PLAN 2 OF 8	C1.2
7	HORIZONTAL CONTROL PLAN 3 OF 8	C1.3
8	HORIZONTAL CONTROL PLAN 4 OF 8	C1.4
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10	HORIZONTAL CONTROL PLAN 6 OF 8	C1.6
11	HORIZONTAL CONTROL PLAN 7 OF 8	C1.7
12	HORIZONTAL CONTROL PLAN 8 OF 8	C1.8
13	HORIZONTAL CONTROL CURVE TABLES	C1.9
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16	GRADING PLAN 2 OF 8	C2.2
17	GRADING PLAN 3 OF 8	C2.3
18	GRADING PLAN 4 OF 8	C2.4
19	GRADING PLAN 5 OF 8	C2.5
20	GRADING PLAN 6 OF 8	C2.6
21	GRADING PLAN 7 OF 8	C2.7
22	GRADING PLAN 8 OF 8	C2.8
23	OVERALL UTILITY PLAN	C3.0
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26	UTILITY PLAN 3 OF 8	C3.3
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28	UTILITY PLAN 5 OF 8	C3.5
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30	UTILITY PLAN 7 OF 8	C3.7
31	UTILITY PLAN 8 OF 8	C3.8
32	PRIVATE DRIVE A & B PLAN & PROFILE	C4.1
33	PRIVATE DRIVE H & G PLAN & PROFILE	C4.2
34	PRIVATE DRIVE K PLAN & PROFILE	C4.3
35	PRIVATE DRIVE J & EXIST SS PLAN & PROFILE	C4.4
36	PRIVATE DRIVE F PLAN & PROFILE STA 10+20 - 16+00	C4.5
37	PRIVATE DRIVE F PLAN & PROFILE STA 16+00 - 21+15	C4.6
38	PRIVATE DRIVE E PLAN & PROFILE STA 10+81 - 16+50	C4.7
39	PRIVATE DRIVE E PLAN & PROFILE STA 16+50 - 21+73	C4.8
40	PRIVATE DRIVE D PLAN & PROFILE STA 10+00 - 15+50	C4.9
41	PRIVATE DRIVE D PLAN & PROFILE STA 15+50 - 20+54	C4.10
42	PRIVATE DRIVE C PLAN & PROFILE STA 10+89 - 75+00	C4.11
43	PRIVATE DRIVE C PLAN & PROFILE STA 15+00 - 21+22	C4.12
44	STORM DRAIN PLAN SHEET 1 OF 6	C5.1
45	STORM DRAIN PLAN SHEET 2 OF 6	C5.2
46	STORM DRAIN PLAN SHEET 3 OF 6	C5.3
47	STORM DRAIN PLAN SHEET 4 OF 6	C5.4
48	STORM DRAIN PLAN SHEET 5 OF 6	C5.5
49	STORM DRAIN PLAN SHEET 6 OF 6	C5.6
50	STORM DRAIN LATERAL PROFILES SHEET 1 OF 3	C6.1
51	STORM DRAIN LATERAL PROFILES SHEET 2 OF 3	C6.2
52	STORM DRAIN LATERAL PROFILES SHEET 3 OF 3	C6.3
53	OVERALL TRAFFIC & FIRE CONTROL PLAN	C7.0
54	TRAFFIC & FIRE CONTROL PLAN 1 OF 8	C7.1
55	TRAFFIC & FIRE CONTROL PLAN 2 OF 8	C7.2
56	TRAFFIC & FIRE CONTROL PLAN 3 OF 8	C7.3
57	TRAFFIC & FIRE CONTROL PLAN 4 OF 8	C7.4
58	TRAFFIC & FIRE CONTROL PLAN 5 OF 8	C7.5
59	TRAFFIC & FIRE CONTROL PLAN 6 OF 8	C7.6
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64	TYPICAL DETAILS SHEET I	C9.3
65	TYPICAL DETAIL SHEET II	C9.4
66	PLAN AND PROFILE WATER LATERALS	C9.5

ABBREVIATIONS

AB	AGGREGATE BASE	E/W	EAST/WEST OF EACH WAY	PRC	POINT OF REVERSE CURVATURE
AC	ASPHALTIC CONCRETE	F-F	FACE OF CURB TO FACE OF CURB	PT	POINT OF TANGENCY
ADA	AMERICANS WITH DISABILITIES ACT	FG	FINISHED GROUND	PVC	POLYVINYL CHLORIDE
APN	ASSESSORS PARCEL NUMBER	FH	FIRE HYDRANT	PVI	POINT OF VERTICAL INFLECTION
AVE	AVENUE	FS	FINISHED SURFACE	PVT	PRIVATE
BC	BACK OF CURB	FL	FLOWLINE	R	RADIUS
BGR	BEGIN CURB RETURN	FT	FOOT or FEET	RCB	REINFORCED CONCRETE BOX
BLVD	BOULEVARD	GB	GRADE BREAK	RT	RIGHT
BM	BENCHMARK	H	HEIGHT	R/W	RIGHT OF WAY
BVC	BEGIN VERTICAL CURVE	HDPE	HIGH-DENSITY POLYETHYLENE	S	SOUTH
BW	BOTTOM OF WALL	HP	HIGH POINT	SD	STORM DRAIN
B/S	BACKSIDE	INT	INTERSECTION	SDMH	STORM DRAIN MANHOLE
CALC	CALCULATED	INV	INVERT	SF	SQUARE FOOT OR FEET
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	L	LANDSCAPE ARCHITECT	SS	SANITARY SEWER
CL	CENTERLINE	LA	LINEAR FEET	SSMH	SANITARY SEWER MANHOLE
CLV	CITY OF LAS VEGAS	LF	LANDSCAPE	ST	STREET
CO	CLEAN OUT	L/S	LEFT	STD	STANDARD
CONN	CONNECTION	LVWD	LAS VEGAS VALLEY WATER DISTRICT	SY	SQUARE YARDS
CTV	CABLE TELEVISION	MAX	MAXIMUM	TC	TOP OF CURB
CY	CUBIC YARD	ME	MATCH EXISTING	TG	TOP OF GRATE
Δ	DELTA (DIFFERENCE) / ANGLE	MEP	MECHANICAL, ELECTRICAL AND PLUMBING	TYP	TYPICAL
D	DEPTH	MH	MANHOLE	TW	TOP OF WALL
DG	DECOMPOSED GRANITE	MIN	MINIMUM	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
DI	DUCTILE IRON	N	NORTH		VERTICAL
E	EACH	NAP	NOT A PART		WEST OR WATER
EA	END CURB RETURN	NTS	NOT TO SCALE		WATERLINE
ELEV	ELEVATION	N/S	NORTH/SOUTH		WTR
ELEC	ELECTRICAL	OC	ON CENTER		WATER
EP	EDGE OF PAVEMENT	P.A.E.	PUBLIC ACCESS EASEMENT		XFF
EVC	END VERTICAL CURVE	PC	POINT OF CURVATURE		±
EX	EXISTING	PCC	POINT OF COMPOUND CURVATURE		PLUS OR MINUS
		PR	PROPOSED		
		PROP	PROPOSED		



MASTER LEGEND

STREET CENTERLINE	EXISTING PARKING STRIPING
PROPERTY LINE	PROPOSED ROAD STRIPING
ADJACENT PROPERTY LINE	PROPOSED PARKING STRIPING
EXISTING LOT LINE	EXISTING CONTOUR
EXISTING EASEMENT	PROPOSED CONTOUR
EXISTING PATENT EASEMENT	CUT FILL TRANSITION
EXISTING PROPERTY LINE TO BE VACATED	ADA ACCESS
EXISTING PATENT EASEMENT TO BE VACATED	SAWOUT LIMITS
EXISTING WALL	RIDGE
PROPOSED RETAINING & SCREEN WALL	GRADE BREAK
PROPOSED SCREEN WALL	FLOW LINE
EXISTING FENCE	EXISTING STORM DRAIN
PROPOSED FENCE	EXISTING STORM DRAIN TO BE REMOVED
EXISTING BUILDING	EXISTING SEWER LINE
PROPOSED BUILDING	EXISTING WATER LINE
PROPOSED CONCRETE BARRIER RAIL	EXISTING GAS LINE
EXISTING CURB & GUTTER	PROPOSED SEWER
EXISTING CURB	PROPOSED SEWER LATERAL
EXISTING SIDEWALK	PROPOSED WATER LINE
EXISTING VALLEY GUTTER	PROPOSED STREET LIGHT CONDUIT
PROPOSED CURB & GUTTER	PROPOSED TRAFFIC CONDUIT
PROPOSED CURB	EXISTING SIGN
PROPOSED SIDEWALK	PROPOSED SIGN
EXISTING EDGE OF PAVEMENT	EXISTING HANDICAP PARKING
PROPOSED EDGE OF PAVEMENT	PROPOSED HANDICAP PARKING
EXISTING EDGE OF PAVEMENT TO BE REMOVED	EXISTING STORM DRAIN MANHOLE
EXISTING ROAD STRIPING	PROPOSED SIDEWALK DRAIN
PROPOSED BOLLARD	EXISTING DROP INLET
PROPOSED DOOR	PROPOSED DROP INLET
SCARP	EXISTING SEWER MANHOLE
SLOPE	PROPOSED SEWER MANHOLE
EXISTING GRADE	EXISTING FIRE HYDRANT
PROPOSED GRADE	PROPOSED CLEAN OUT
BACKWATER VALVE	PROPOSED FIRE HYDRANT
	EXISTING WATER VALVE
	PROPOSED WATER VALVE
	PROPOSED BLUE REFLECTIVE PMT MARKING
	EXISTING MISCELLANEOUS MANHOLE
	EXISTING POLE
	EXISTING STREET LIGHT
	EXISTING AREA LIGHT
	PROPOSED STREET LIGHT
	PROPOSED AREA LIGHT



CLV#: L20-00433 107Y5137

KHA PROJECT
092935004

DATE
11/16/2020

SCALE AS SHOWN

DESIGNED BY
MK

DRAWN BY
MK

CHECKED BY
TC

HIGHLINE
VILLAGE 21 - PARCEL 1
PREPARED FOR
LENNAR HOMES

NEVADA
CITY OF LAS VEGAS

3 OF 66 SHEETS
C0.3

17/16/2020

Kimley»Horn

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6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

REVISIONS

DATE

BY

Plotted By: Kintner, Mikel Sheet: Set: KHA Layout: C2.0 May 06, 2021 07:47:20am K:\NAV\Civil\092935004-Lennar Village 21 Parcel 1\CAD\PlanSheets\092935004-000.dwg
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APN#: 137-26-112-005
HUGHES HOWARD
COMPANY LLC
PARCEL C0S-1

APN#: 137-26-112-002
HUGHES HOWARD COMPANY LLC
VACANT LAND
PARCEL J

APN#: 137-23-410-002
HUGHES HOWARD COMPANY LLC
VACANT LAND
PARCEL M



EARTHWORK QUANTITIES		
CUT	FILL	NET
5,000 CY	200,000 CY	195,000 CY IMPORT

*NOTE: THESE QUANTITIES ARE APPROXIMATE AND ARE RAW VOLUMES ONLY. OVEREXCAVATION SUBSIDENCE, SHRINKAGE, & BULKING FACTORS ARE NOT TAKEN INTO ACCOUNT.

PRIVATE STORM QUANTITIES IN PUBLIC EASEMENTS:

LINE ITEM	DESCRIPTION	Private Quantity	Public Quantity	Unit	Type
Storm Drain					
603.00.04	18" STORM DRAIN		4,375	LF	
603.00.06	24" STORM DRAIN		3,645	LF	
603.00.12	42" STORM DRAIN		400	LF	
Drop Inlets					
609.01.06	18x18 NDS CATCH BASIN		180	EA	
609.01.72	15.0" TYPE DM2 DI		37	EA	
609.01.74	7.5" TYPE DM2 DI		1	EA	
609.01.76	10.0" TYPE DM2 DI		1	EA	
Storm Drain Manhole					
609.00.10	48" SD MANHOLE		28	EA	
609.00.14	60" SD MANHOLE		5	EA	

PRIVATE STREETS/DRIVES NOTE:

ALL PRIVATE STREETS/DRIVES ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

STORM DRAIN NOTE:

ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

FOR STORM DRAIN DESIGN, REFER TO SHEETS C5.1 THROUGH C5.6

ENGINEER'S NOTES:

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY AMERICAN SOILS ENGINEERING, LLC DATED JULY 1, 2019 PROJECT NO. 1993-GE0
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
- FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNLESS APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
- PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.
- ALL ONSITE STORM DRAIN AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

STORMWATER MANAGEMENT NOTES:

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY BUILDING ADMINISTRATIVE CODE, 24.40, AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



KEYMAP

N15



GRAPHIC SCALE IN FEET
0 30 60 120
SCALE 1" = 60'

LEGEND

	PUBLIC UTILITY EASEMENT & PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
	PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
	PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED
	LVWD EASEMENT TO BE PRIVATELY MAINTAINED
1102	UNIT NUMBER
L021102	LIMITED COMMON ELEMENT NUMBER

GEOTECHNICAL NOTE

ALL GRADING AND PAVEMENT SECTIONS SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: AMERICAN SOILS ENGINEERING, LLC
REPORT DATED: JULY 1, 2019
PROJECT NO.: 1993-GE0

NOTE (ALL BUILDINGS): PER GEOTECHNICAL RECOMMENDATIONS, POSITIVE DRAINAGE OF 5% MINIMUM SHALL BE MAINTAINED FOR AREAS ADJACENT TO STRUCTURES THAT ARE NOT COVERED IN ASPHALT OR CONCRETE, THE 5% MINIMUM SLOPE SHALL BE MAINTAINED FOR A MINIMUM OF 10'.

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN PER FEMA MAP, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

LEGEND & ABBREVIATIONS

SEE SHEET C0.3 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR LEGAL DESCRIPTION

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 7LV09345W6 (REVISED 2008)
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)

FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. 1205.059E,534

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS). LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

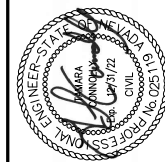
DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT DS-05201

TAMARA CONNOLLY, PE No. 025119 DATE 05/04/2021

No.	REVISIONS	DATE	BY
1	ADJUST SD CONNECTION TO EX FIELD CONDITION. ADJUST TO IC GRADES. ADD EXIST DETAIL	05/04/2021	KHA

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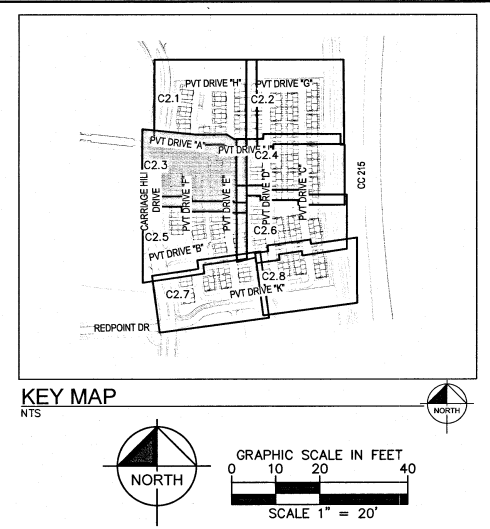
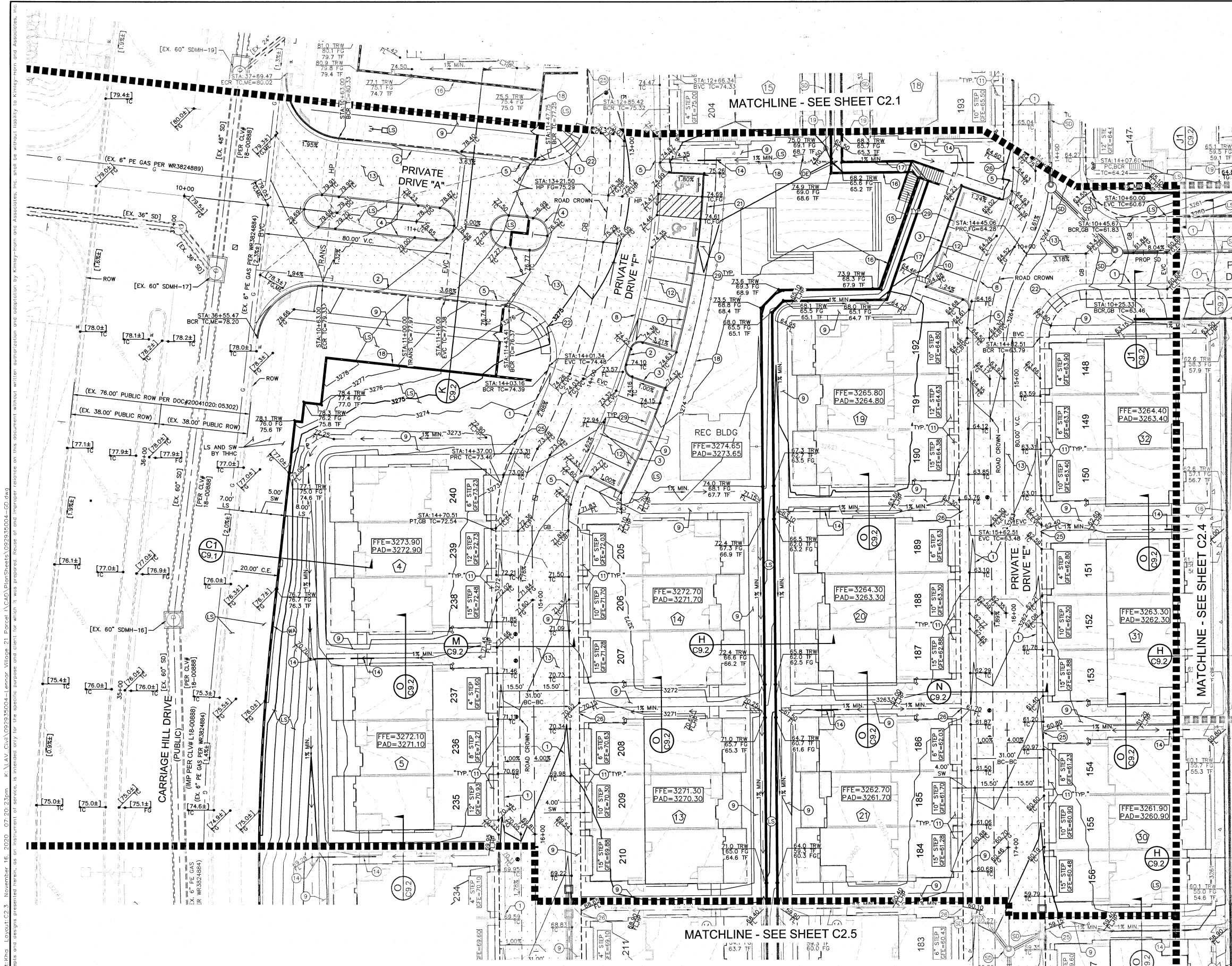


KHA PROJECT	092935004	DATE	05/04/2021	SCALE	AS SHOWN	DESIGNED BY	MK	DRAWN BY	MK	CHECKED BY	TC
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OVERALL GRADING PLAN

HIGHLINE
VILLAGE 21 - PARCEL I
PREPARED FOR
LENNAR HOMES
NEVADA
CITY OF LAS VEGAS

CLV#: L20-00433 107Y5137



- ### CONSTRUCTION NOTES
1. CONSTRUCT 30" ROLL CURB PER CCAUSD NO. 217.1.
 2. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216.
 3. CONSTRUCT 6" CURB PER DETAIL 12 ON SHEET C9.3.
 4. CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219.
 5. 10 LF TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL 6 ON SHEET C9.3.
 6. CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 5 ON SHEET C9.3.
 7. CONSTRUCT 5" THICK SIDEWALK (WIDTH PER PLAN) PER CCAUSD NO. 234.
 8. CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
 9. CONSTRUCT PCC DRIVEWAY PER DETAIL 3 ON SHEET C9.3.
 10. CONSTRUCT LIGHT AC PAVEMENT PER DETAIL 1 ON SHEET C9.3.
 11. CONSTRUCT HEAVY AC PAVEMENT PER DETAIL 2 ON SHEET C9.3.
 12. CONSTRUCT STAIR RISER PER 2018 IBC, PROVIDE SUMMERLIN COMPLIANT HANDRAIL FOR 3 OR MORE STEPS.
 13. CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, WITH DECORATIVE VIEW FENCE, PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).
 14. CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).
 15. CONSTRUCT DECORATIVE WROUGHT IRON FENCE COMPLIANT WITH SUMMERLIN DESIGN STANDARDS.
 16. CONSTRUCT TWO (2) CMU DRAIN BLOCKS SIDE BY SIDE.
 17. CONSTRUCT ACCESSIBLE RAMP CASE 1 PER DETAIL 13 ON SHEET C9.3 AND SUMMERLIN DESIGN STANDARDS.
 18. CONSTRUCT ACCESSIBLE RAMP CASE 2 PER DETAIL 14 ON SHEET C9.3 AND SUMMERLIN DESIGN STANDARDS.
 19. INSTALL ROLL CURB DRAIN OUTLET.
 20. INSTALL 8" PVC DRAIN LINE WITH ROLL CURB DRAIN ADAPTOR.
 21. INSTALL WHEELS STOPS PER CCAUSD NO. 238 AND SUMMERLIN DESIGN STANDARDS.
 22. PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED.
 23. LANDSCAPE AREA - TO BE MAINTAINED BY OWNER.
 24. REFER TO STORM DRAIN PLANS, SHEETS C5.1 THROUGH C5.6, FOR STORM DESIGN.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN PER FEMA MAP, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

LEGEND & ABBREVIATIONS

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LEGAL DESCRIPTION

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BENCHMARK

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FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205/R59E, S34

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

APPROVED FOR CONSTRUCTION

AMANDA HENDERSON
SOUTHWEST GAS CORPORATION

2020NAGH35498
SWG UID

09/15/2020
DATE

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT DS-05201

11/16/2020
DATE

TAMARA CONNOLLY, PE NO. 025119

SIGHT VISIBILITY ZONES NOTE

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PRIVATE STORM QUANTITIES IN PUBLIC EASEMENTS:

REFER TO OVERALL GRADING PLAN, SHEET C2.0

GARAGE STEP NOTE:

FOR GARAGE STEP DETAIL, REFER TO DETAIL 18 SHEET C9.3.

PRIVATE STREETS/DRIVES NOTE:

ALL PRIVATE STREETS/DRIVES ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

STORM DRAIN NOTE:

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STORMWATER MANAGEMENT NOTES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

ENGINEER'S NOTES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

EARTHWORK QUANTITIES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

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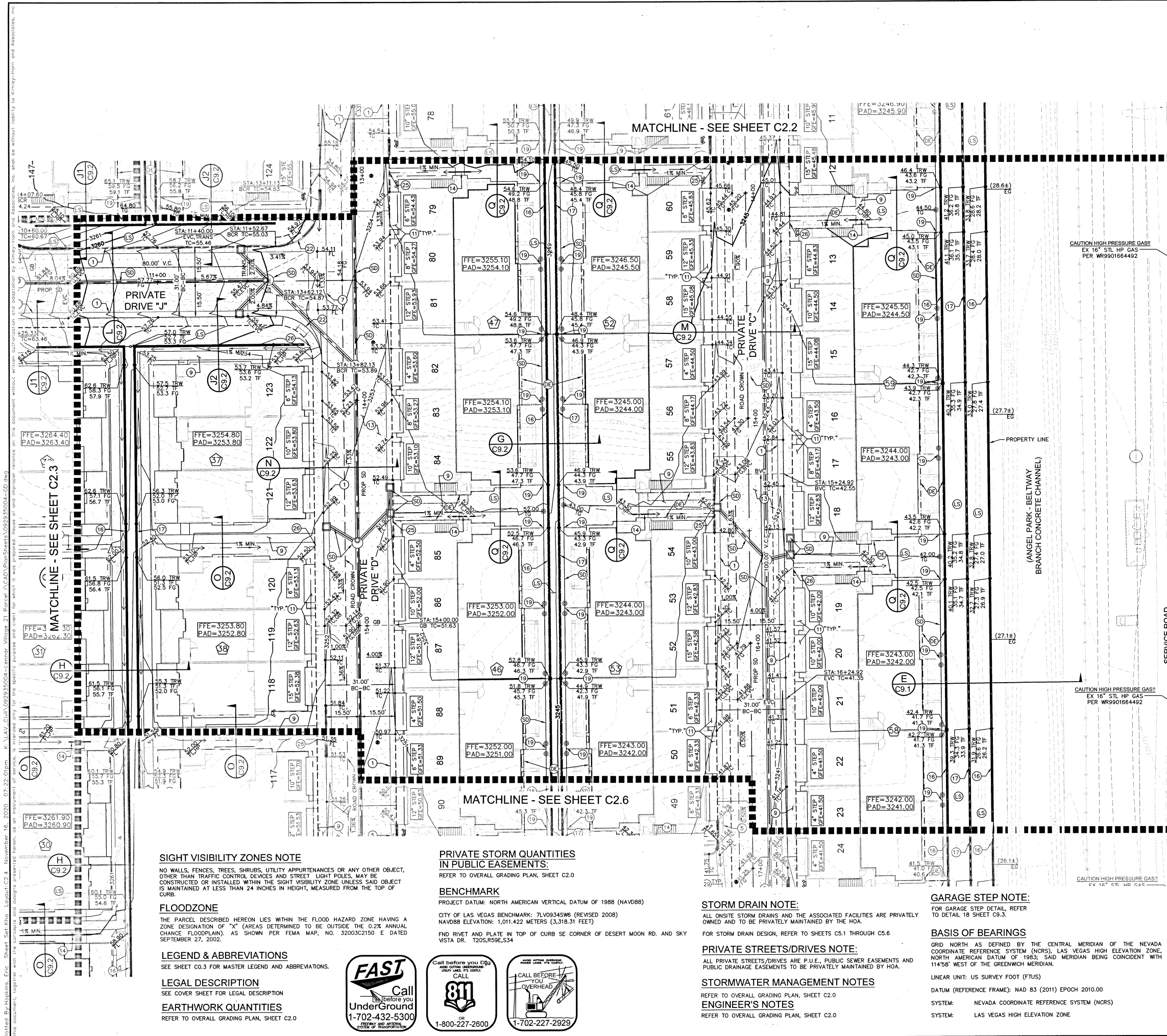
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6671 LAS VEGAS BLVD. S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-882-3000
WWW.KIMLEY-HORN.COM

KHA PROJECT 092935004
DATE 11/16/2020
SCALE AS SHOWN
DESIGNED BY MK
DRAWN BY MK
CHECKED BY TC

HIGHLINE
VILLAGE 21 - PARCEL 1
PREPARED FOR
LENNAR HOMES

GRADING PLAN
3 OF 8

NEVADA
CITY OF LAS VEGAS



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LEGAL DESCRIPTION

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EARTHWORK QUANTITIES

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STORMWATER MANAGEMENT NOTES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

ENGINEER'S NOTES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

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BASIS OF BEARINGS

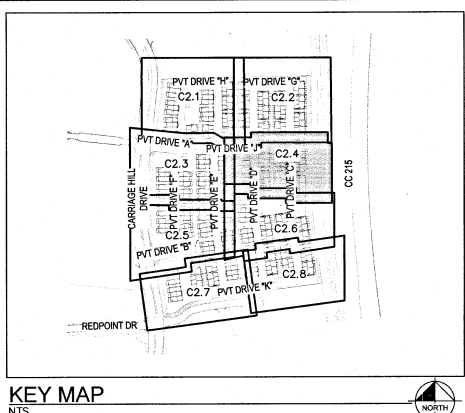
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LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

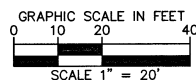
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE



KEY MAP

NTS



CONSTRUCTION NOTES

1. CONSTRUCT 30" ROLL CURB PER CCAUSD NO. 217.1.
2. 10 LF TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL 6 ON SHEET C9.3.
3. CONSTRUCT 8" WIDE VALLEY GUTTER PER DETAIL 9 ON SHEET C9.3.
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5. CONSTRUCT PCC DRIVEWAY PER DETAIL 3 ON SHEET C9.3.
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7. INSTALL 8" PVC UNDER SIDEWALK
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16. REFER TO STORM DRAIN PLANS, SHEETS C5.1 THROUGH C5.6, FOR STORM DESIGN

CAUTION: HIGH PRESSURE GAS!!

CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION

AMANDA HENDERSON 2020NAGH35498 09/15/2020
SOUTHWEST GAS CORPORATION SWG UID DATE

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT DS-05201

TAMARA CONNOLLY, PE No. 025119 11/16/2020
DATE

Kimley»Horn

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KHA PROJECT	092935004	DATE	11/16/2020	SCALE	AS SHOWN	DESIGNED BY	MK	DRAWN BY	MK	CHECKED BY	TC
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GRADING PLAN
4 OF 8

HIGHLINE
VILLAGE 21 - PARCEL 1

PREPARED FOR
LENNAR HOMES

CITY OF LAS VEGAS NEVADA

18 OF 66 SHEETS

C2.4

CLV#: L20-00433 107Y5137

Plotted By: Hopkins, Eric Sheet Set No. 092935004-1 Lennar Villages 21 Parcel 1 (C2.6) November 16, 2020 07:25:41pm K:\AV Civil\092935004-1 Lennar Villages 21 Parcel 1 (C2.6) November 16, 2020 07:25:41pm
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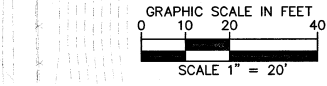
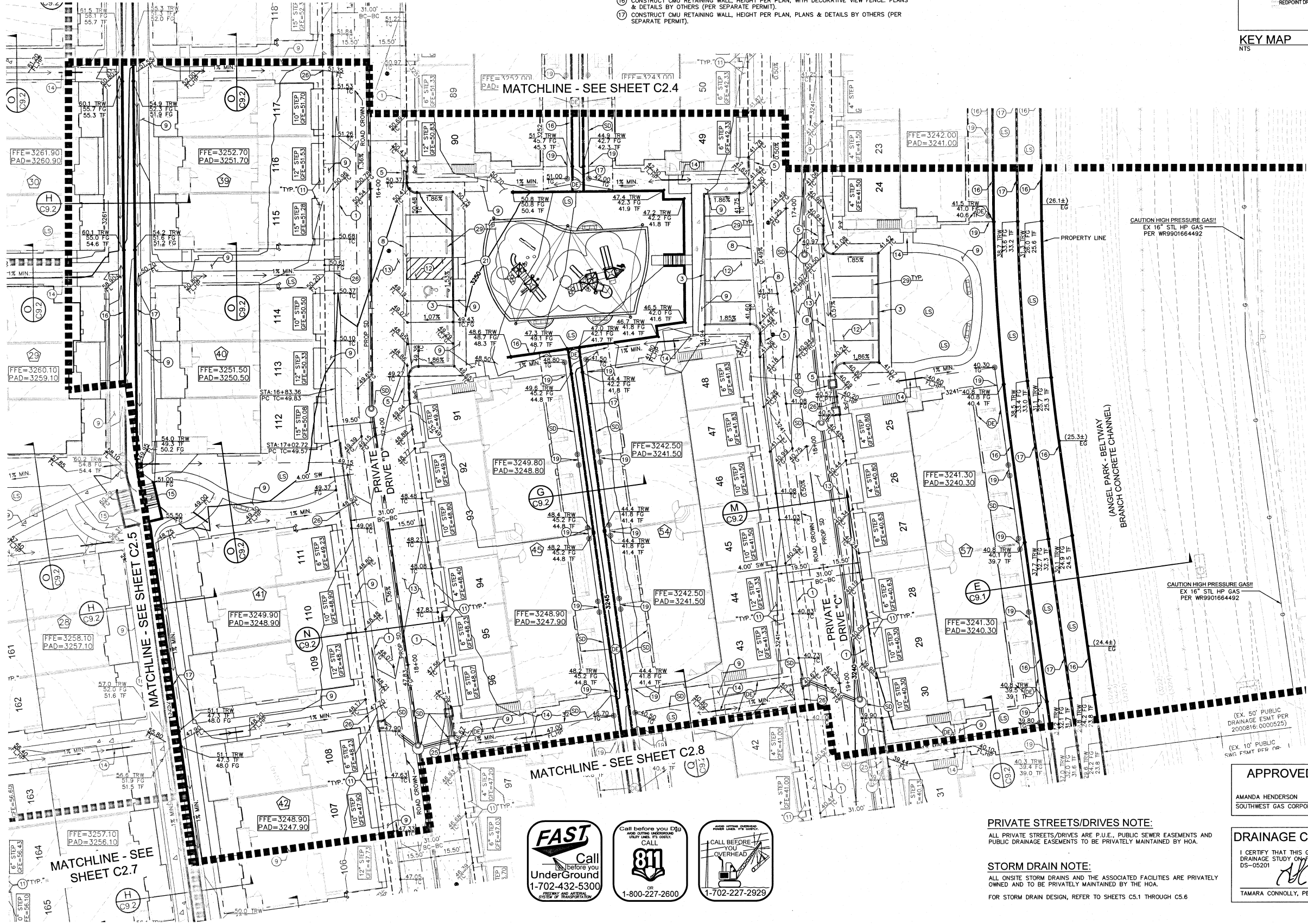
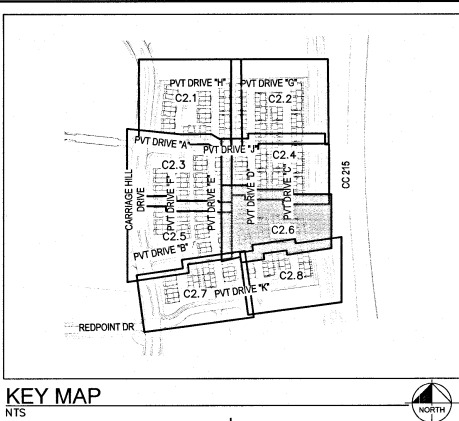
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SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

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- CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 5 ON SHEET C9.3.
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CAUTION HIGH PRESSURE GAS!!
EX 16" STL HP GAS
PER WR9901664492

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ENGINEER'S NOTES
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APPROVED FOR CONSTRUCTION
AMANDA HENDERSON 2020NACH35498 09/15/2020
SOUTHWEST GAS CORPORATION SWG UID DATE

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DATE



KHA PROJECT		DATE		SCALE		DESIGNED BY		DRAWN BY		CHECKED BY		REVISIONS		DATE		BY	
092935004		11/16/2020		AS SHOWN		MK		MK		TC							

Kimley»Horn

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AMANDA HENDERSON
PROFESSIONAL ENGINEER
STATE OF NEVADA
NO. 025119
CIVIL ENGINEERING

HIGHLINE VILLAGE 21 - PARCEL 1 GRADING PLAN 6 OF 8

PREPARED FOR
LENNAR HOMES

CITY OF LAS VEGAS NEVADA

20 OF 66 SHEETS
C2.6

CONSTRUCTION NOTES

1. CONSTRUCT 30" ROLL CURB PER CCAUSD NO. 217.1.
2. CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216.
3. CONSTRUCT 6" CURB PER DETAIL 12 ON SHEET C9.3.
5. 10 LF TRANSITION FROM "L" CURB TO ROLL CURB PER DETAIL 6 ON SHEET C9.3.
7. CONSTRUCT 8" WIDE VALLEY GUTTER PER DETAIL 9 ON SHEET C9.3.
8. CONSTRUCT 3" WIDE VALLEY GUTTER PER DETAIL 5 ON SHEET C9.3.
9. CONSTRUCT 5" THICK SIDEWALK (WIDTH PER PLAN) PER CCAUSD NO. 234.
10. CONSTRUCT SIDEWALK UNDERDRAIN PER CCAUSD NO. 236.
11. CONSTRUCT PCC DRIVEWAY PER DETAIL 3 ON SHEET C9.3.
12. CONSTRUCT LIGHT AC PAVEMENT PER DETAIL 1 ON SHEET C9.3.
13. CONSTRUCT HEAVY AC PAVEMENT PER DETAIL 2 ON SHEET C9.3.
14. INSTALL 8" PVC UNDER SIDEWALK
15. CONSTRUCT STAIR RISER PER 2018 IBC, PROVIDE SUMMERLIN COMPLIANT HANDRAIL FOR 3 OR MORE STEPS.
16. CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, WITH DECORATIVE VIEW FENCE. PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).
17. CONSTRUCT CMU RETAINING WALL, HEIGHT PER PLAN, PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT).
18. INSTALL TWO (2) CMU DRAIN BLOCKS SIDE BY SIDE.
21. CONSTRUCT ACCESSIBLE RAMP CASE 2 PER DETAIL 14 ON SHEET C9.3 AND SUMMERLIN DESIGN STANDARDS
- 22.
24. OUTLET 6" STORM DRAIN THROUGH WALL AND SPLASH TO GRADE PER DETAIL X ON SHEET C9.3
25. INSTALL ROLL CURB DRAIN OUTLET
26. INSTALL 8" PVC DRAIN LINE WITH ROLL CURB DRAIN ADAPTOR
27. INSTALL PEDESTRIAN ACCESS GATE. PLANS & DETAILS BY OTHERS.
28. INSTALL WHEELS STOPS PER CCAUSD NO. 238 AND SUMMERLIN DESIGN STANDARDS

- (DE) PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
- (LS) LANDSCAPE AREA - TO BE MAINTAINED BY OWNER
- (SD) REFER TO STORM DRAIN PLANS, SHEETS C5.1 THROUGH C5.6, FOR STORM DESIGN
- (WA) VILLAGE WALL BY MASTER DEVELOPER (PLAN/PERMIT BY OTHERS)

GARAGE STEP NOTE:
FOR GARAGE STEP DETAIL, REFER TO DETAIL 18 SHEET C9.3.

PRIVATE STREETS/DRIVES NOTE:
ALL PRIVATE STREETS/DRIVES ARE P.U.E., PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM THE TOP OF CURB.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN PER FEMA MAP, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

STORM DRAIN NOTE:

ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

FOR STORM DRAIN DESIGN, REFER TO SHEETS C5.1 THROUGH C5.6

LEGEND & ABBREVIATIONS

SEE SHEET C0.3 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR LEGAL DESCRIPTION

EARTHWORK QUANTITIES

REFER TO OVERALL GRADING PLAN, SHEET C2.0

BENCHMARK

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 7LV09345SW6 (REVISED 2008)

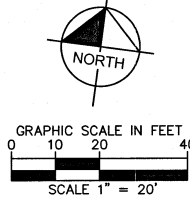
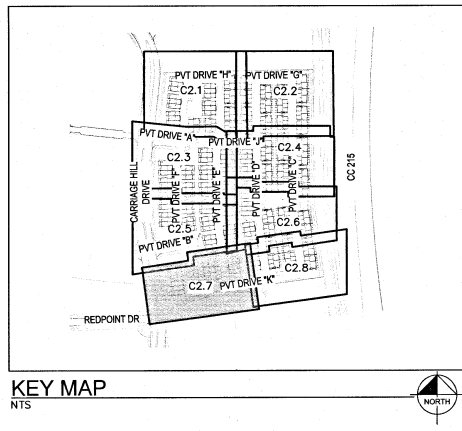
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)

FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T205,R59E,S34



KEY MAP

NTS

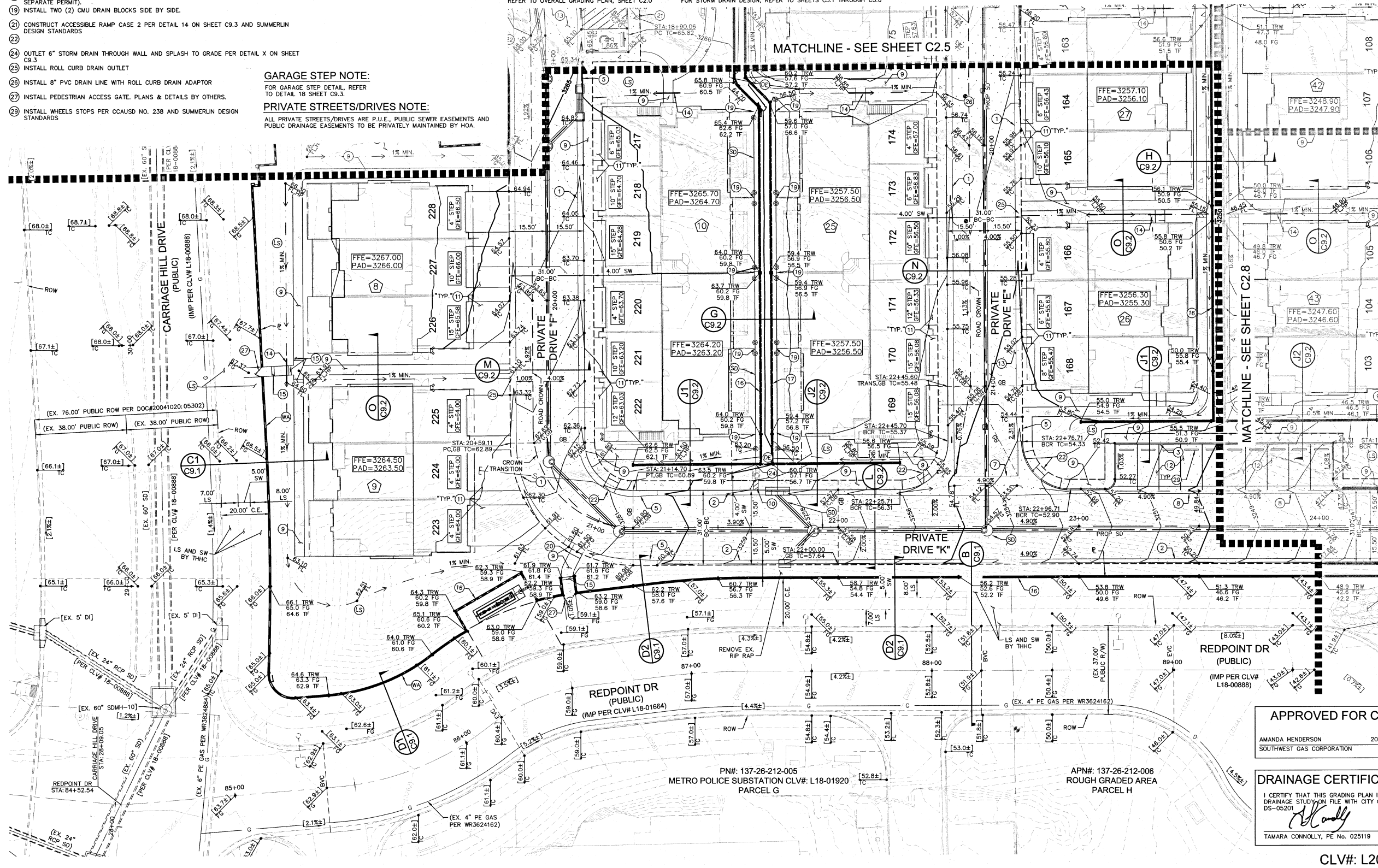


PRIVATE STORM QUANTITIES IN PUBLIC EASEMENTS:

REFER TO OVERALL GRADING PLAN, SHEET C2.0

MATCHLINE - SEE SHEET C2.5

MATCHLINE - SEE SHEET C2.8



APPROVED FOR CONSTRUCTION

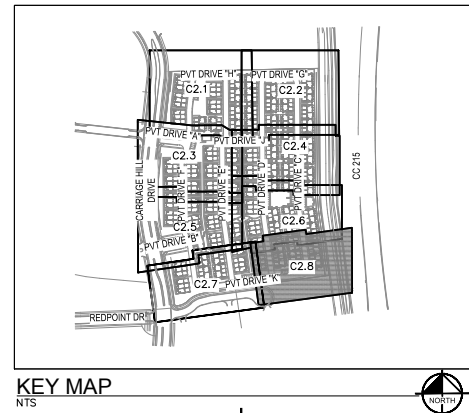
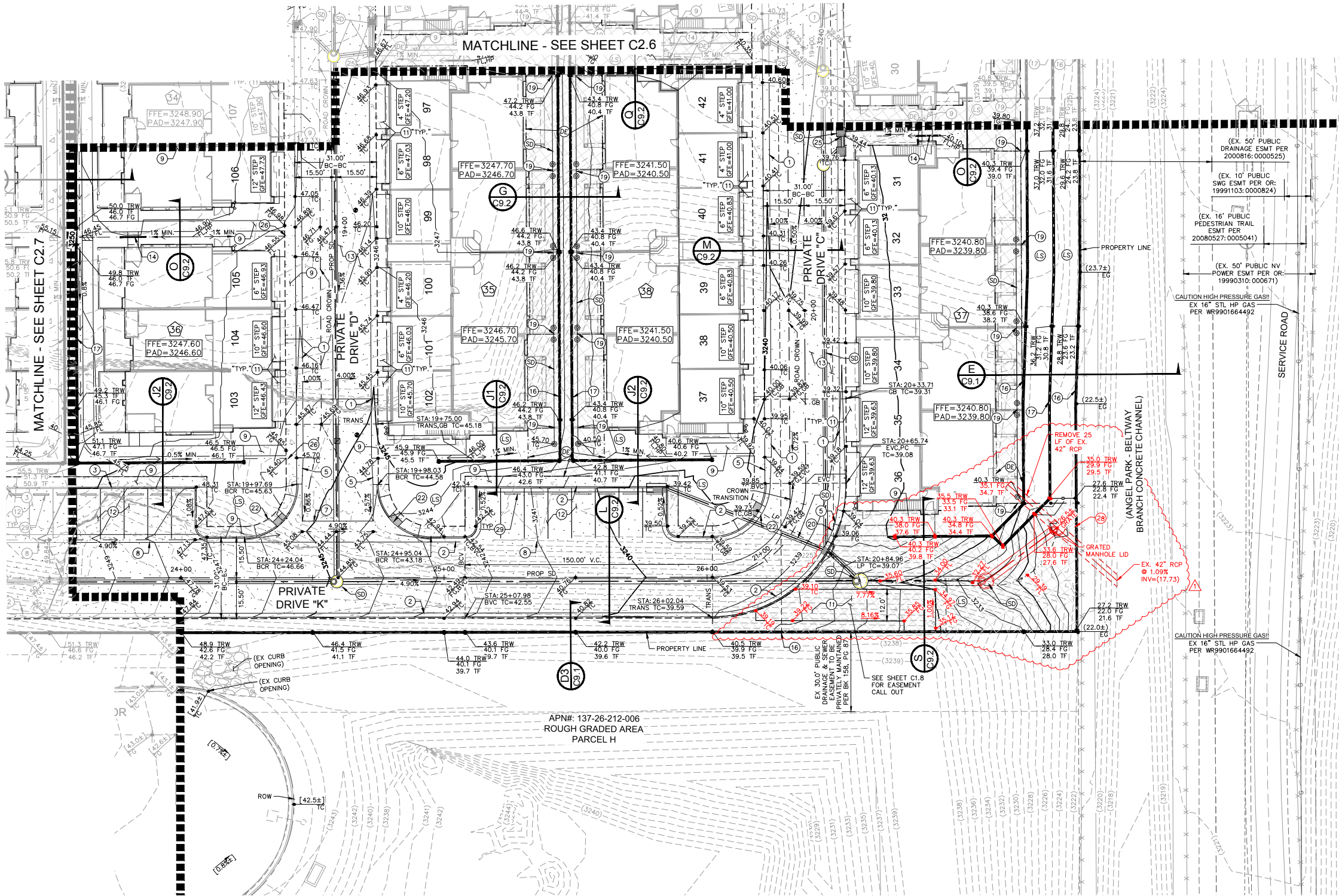
AMANDA HENDERSON 2020NAGH35498 09/15/2020
SOUTHWEST GAS CORPORATION SWG UID DATE

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY IN FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT DS-05001

TAMARA CONNOLLY, PE No. 025119 11/16/2020
DATE

CLV#: L20-00433 107Y5137

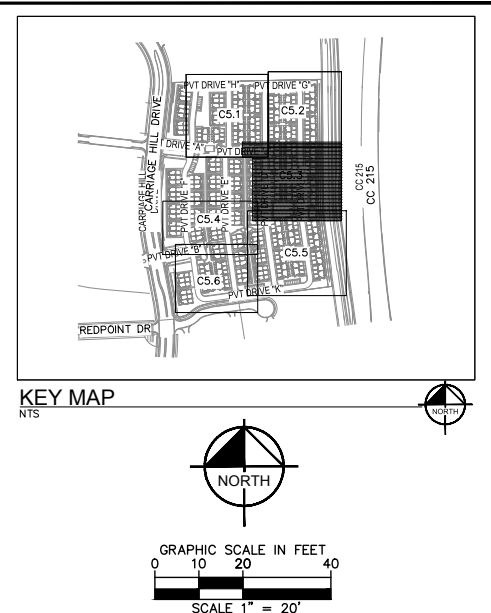
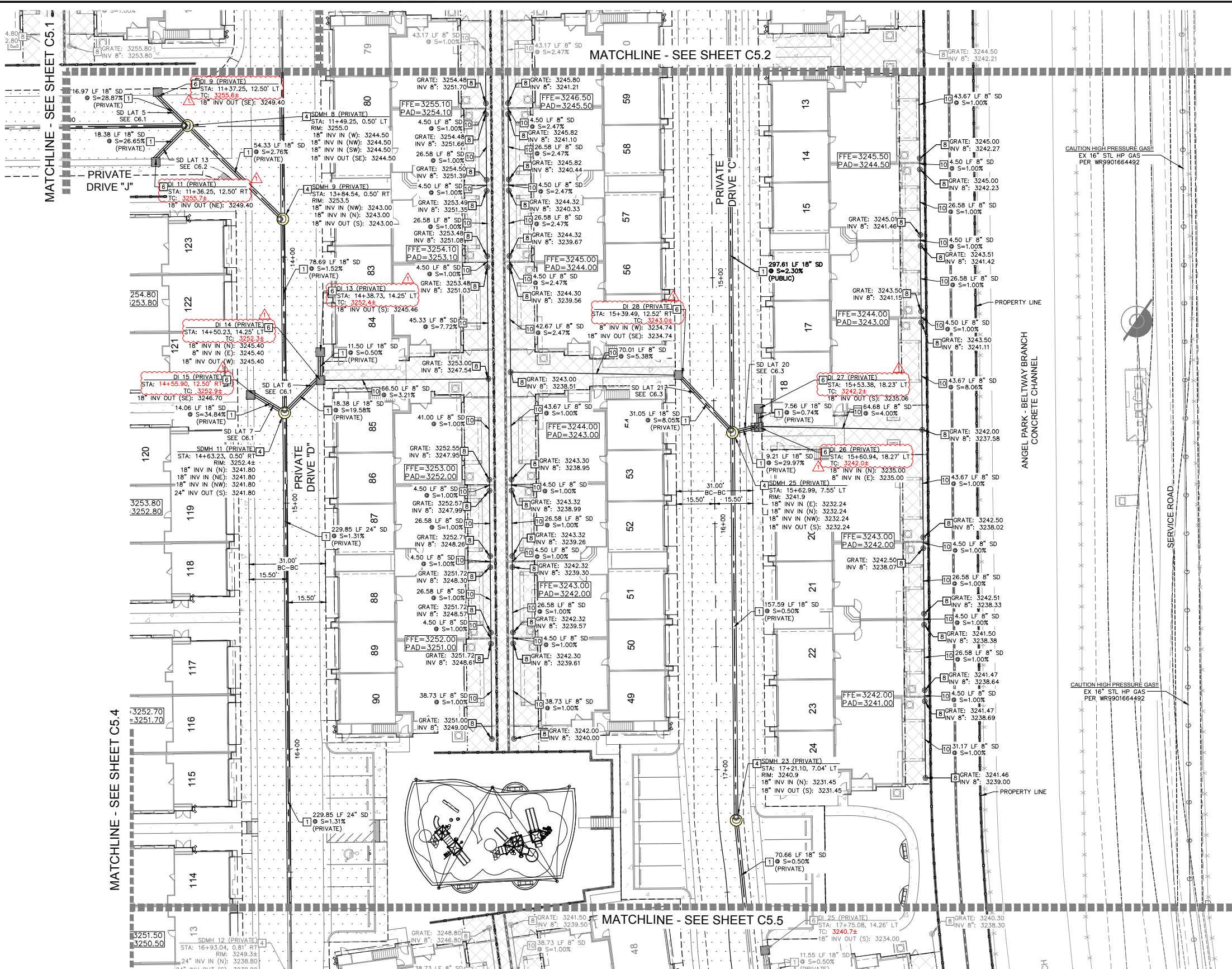


TAMARA CONNOLLY, PE No. 025119



C5.2

Plotted By: Kintner, Mikel Sheet: Set: KHA Layout: C5.3 May 04, 2021 03:34:28pm K:\VAV\Civil\092935004-Lennar Village 21 Parcel 1\CAD\PlanSheets\092935004-SD.dwg
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- STORM DRAIN NOTES**
1. INSTALL 18" RCP CLASS III STORM DRAIN PIPE
 2. INSTALL 48" TYPE I SDMH PER CCAUSD NO. 403
 3. INSTALL 24" x 24" JENSEN DROP INLET PER DETAIL 15 ON SHEET C9.3 WITH NEENAH TYPE R-3501 GRATE PER DETAIL 17 ON SHEET C9.3 WITH STORM WATER MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421
 4. INSTALL NDS 18" x 18" CATCH BASIN
 5. INSTALL 8" PVC STORM DRAIN PIPE

- LEGEND**
- PUBLIC UTILITY EASEMENT & PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
 - PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED
 - PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
 - 51 TOTAL UNIT COUNT NUMBER

LEGEND & ABBREVIATIONS
SEE SHEET C0.3 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR LEGAL DESCRIPTION

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 7LV0934SW6 (REVISED 2008)
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)
FND RIVET AND PLATE IN TOP OF CURB SE CORNER OF DESERT MOON RD. AND SKY VISTA DR. T20S,R59E,S34

BASIS OF BEARINGS
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LINEAR UNIT: US SURVEY FOOT (FTUS)
DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION

AMANDA HENDERSON 2020NAGH35498 09/15/2020
SOUTHWEST GAS CORPORATION SWG UID DATE



STORM DRAIN NOTE:
ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

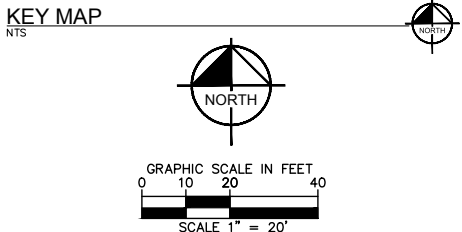
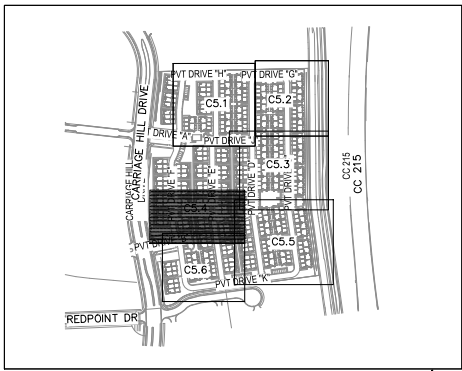
STORMWATER MANAGEMENT NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

ENGINEER'S NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN PER FEMA MAP, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

Kimley»Horn	
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KHA PROJECT 092935004	DATE 05/04/2021
SCALE AS SHOWN	DESIGNED BY MK
DRAWN BY MK	CHECKED BY TC
HIGHLINE VILLAGE 21 - PARCEL 1 PREPARED FOR LENNAR HOMES CITY OF LAS VEGAS NEVADA	
STORM DRAIN PLAN SHEET 3 OF 6	
C5.3	

Plotted By: Kintner, Mikel Sheet: Sdktho Layout: C5.4 May 04, 2021 03:36:48pm K:\VAV\Civil\092935004-Lennar Village 21 Parcel\CAD\PlanSheets\092935004-SD.dwg
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- LEGEND**
- PUBLIC UTILITY EASEMENT & PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
 - PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED
 - PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED
 - 51 TOTAL UNIT COUNT NUMBER

STORM DRAIN NOTE:
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LEGEND & ABBREVIATIONS
SEE SHEET C0.3 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR LEGAL DESCRIPTION

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 7LV0934SW6 (REVISED 2008)
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)

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LINEAR UNIT: US SURVEY FOOT (FT/US)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

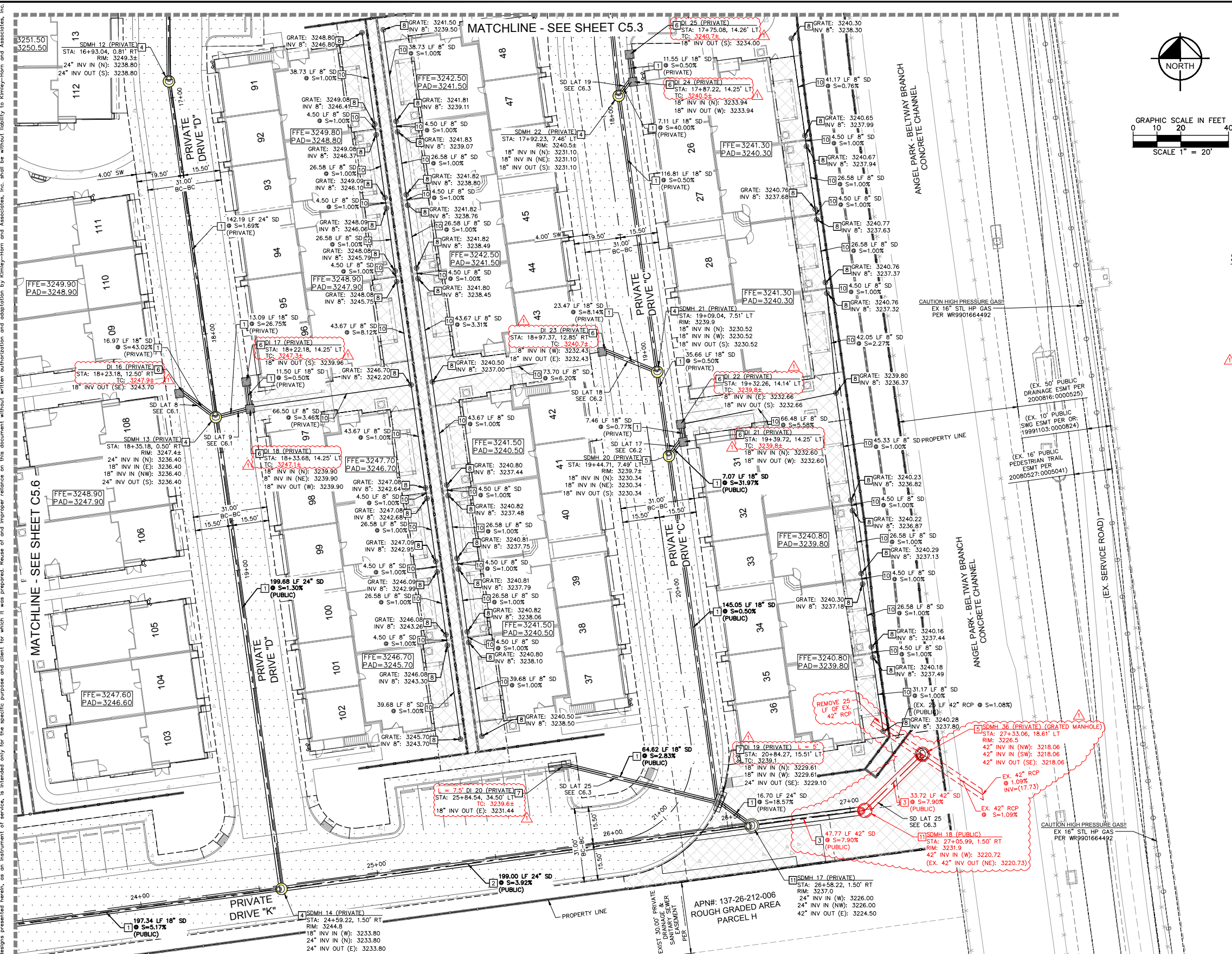
SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE



CLV#: L20-00433 107Y5137

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KHA PROJECT 092935004	DATE 05/04/2021
SCALE AS SHOWN	DESIGNED BY MK
DRAWN BY MK	CHECKED BY TC
HIGHLINE VILLAGE 21 - PARCEL I PREPARED FOR LENNAR HOMES	
CITY OF LAS VEGAS NEVADA	
47 OF 66 SHEETS	
C5.4	



STORM DRAIN NOTE:
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STORMWATER MANAGEMENT NOTES

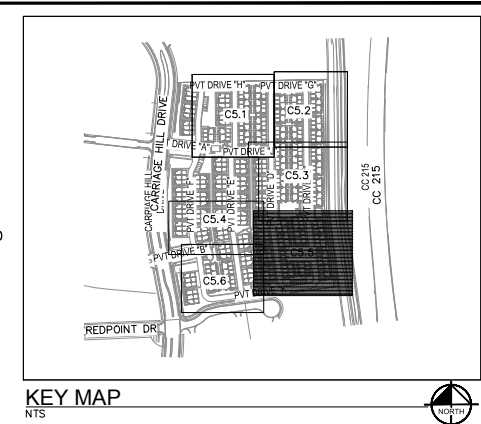
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ENGINEER'S NOTES

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STORM DRAIN NOTES

- 1 INSTALL 18" RCP CLASS III STORM DRAIN PIPE
- 2 INSTALL 24" RCP CLASS III STORM DRAIN PIPE
- 3 INSTALL 42" RCP CLASS III STORM DRAIN PIPE
- 4 INSTALL 48" TYPE I SDMH PER CCAUSD NO. 403
- 5 INSTALL 60" TYPE III SDMH PER CCAUSD NO. 403
- 6 INSTALL 24" x 24" JENSEN DROP INLET PER DETAIL 15 ON SHEET C9.3 WITH
NEENAH TYPE R-3501 GRATE PER DETAIL 17 ON SHEET C9.3 WITH STORM
WATER QUALITY MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421.
- 7 INSTALL TYPE DM2 DROP INLET PER DETAILS 16 ON SHEET C9.3 WITH STORM
WATER QUALITY MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421.
- 8 INSTALL NDS 18" x 18" CATCH BASIN
- 9 INSTALL 8" PVC STORM DRAIN PIPE
- 10 INSTALL 60" TYPE III SDMH WITH NEENAH GRATED LID PER CCAUSD NO. 403
AND NEENAH SPECIFICATIONS

LEGEND

- | | |
|---|---|
|  | PUBLIC UTILITY EASEMENT & PUBLIC
DRAINAGE EASEMENT TO BE PRIVATELY
MAINTAINED |
|  | PUBLIC SEWER EASEMENT TO BE
PRIVATELY MAINTAINED |
|  | PUBLIC DRAINAGE EASEMENT
TO BE PRIVATELY MAINTAINED |
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LEGEND & ABBREVIATIONS

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LEGAL DESCRIPTION

SEE COVER SHEET FOR LEGAL DESCRIPTION

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BASIS OF BEARINGS

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LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

SYSTEM: LAS VEGAS HIGH ELEVATION ZONE.

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CAUTION: HIGH PRESSURE GAS!!

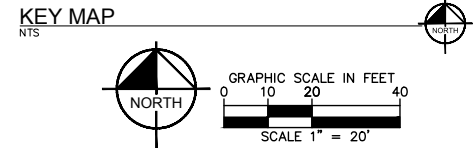
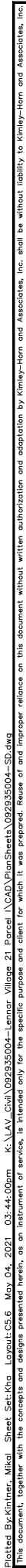
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APPROVED FOR CONSTRUCTION

AMANDA HENDERSON	2020NAGH35498	09/15/2020
SOUTHWEST GAS CORPORATION	SWG UID	DATE



CLV#: L20-00433 107Y5137



- | <div> <div>LEGEND</div> </div> | |
|---|---|
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|  | PUBLIC SEWER EASEMENT TO BE PRIVATELY MAINTAINED |
|  | PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED |

STORMWATER MANAGEMENT NOTES

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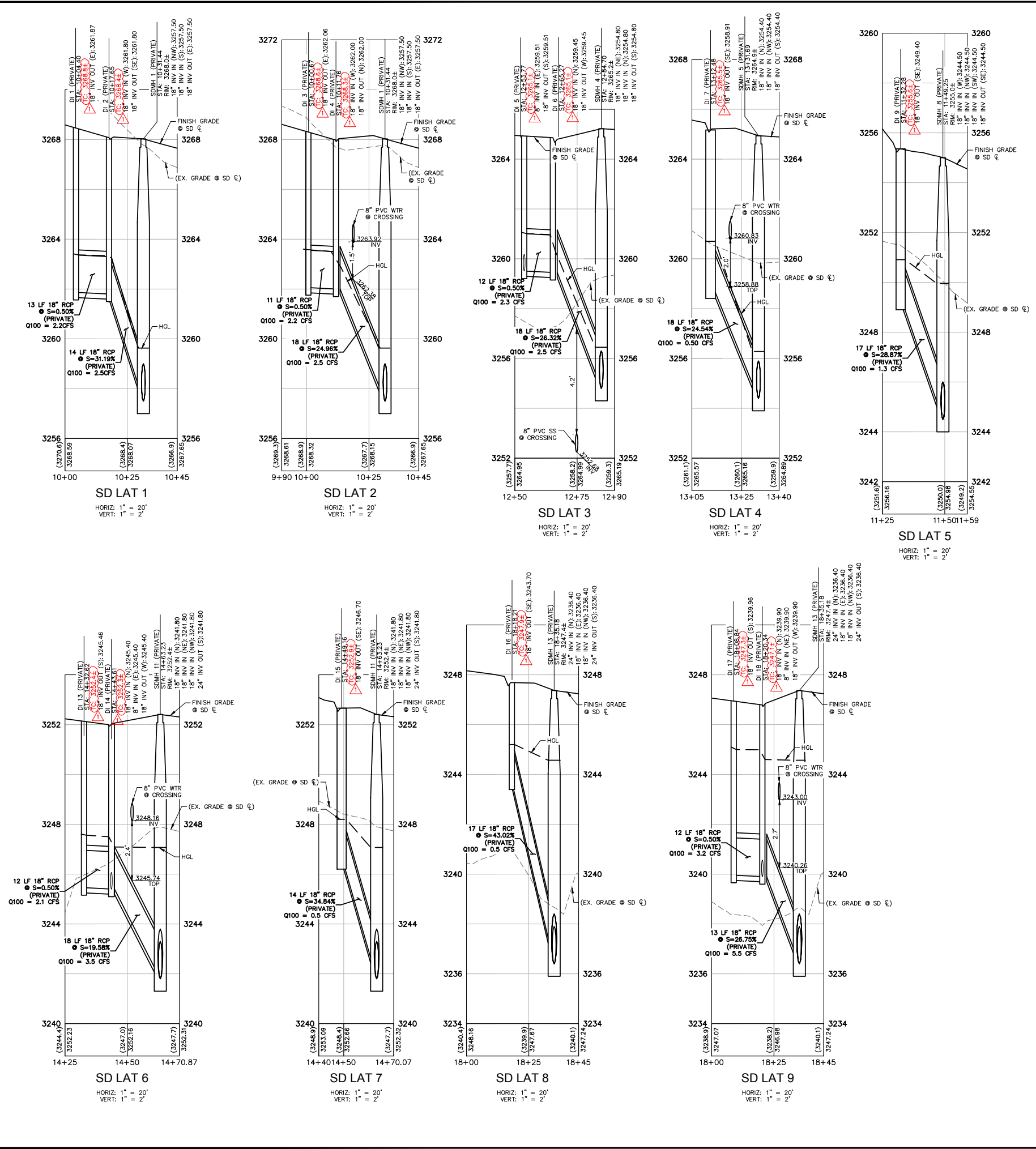
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 SYSTEM: LAS VEGAS HIGH ELEVATION ZONE

 FAST Call us before you UnderGround 1-702-432-5300 SEWER AND WATER SYSTEMS RECONSTRUCTION	Call before you Dig into current underground utility lines its costly. CALL 811  OR 1-800-227-2600	POWER LINES, OVERHEAD, UNDERGROUND CALL BEFORE YOU OVERHEAD  OR 1-702-227-2929
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CLV#: L20-00433 107Y5137

	HIGHLINE VILLAGE 21 - PARCEL I	CITY OF LAS VEGAS NEVADA	STORM DRAIN PLAN SHEET 6 OF 6	KHA PROJECT 092935004	DATE 05/04/2021	SCALE AS SHOWN	DRAWN BY MK	CHECKED BY TC	PROFESSIONAL ENGINEER STATE OF NEVADA No. 025781-1 KIMLEY-HORN & ASSOCIATES, INC. CIVIL ENGINEER Signature: [Handwritten Signature]	No.	REVISIONS	BY DATE	KHA
49	OF 66 SHEETS												
Kimley»Horn													
© 2021 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BLVD., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM													
△ REVERSE SIDE CONNECTION TO EX FIELD CONDITION; ADJUST ALL T/C GRADES AND SLOPES TO MATCH DETAIL													
05/04/2021 KHA													

Plotted By: Kintner, Mikel Sheet Set: KHA Layout: C61 May 04, 2021 03:47:48pm K:\LAV\Civil\092935004-Lennar Village 21\Parcel\PlanSheets\092935004-PP-SD-LAT - Copy.dwg
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STORM DRAIN NOTE:
ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

ALL STORM DRAIN DROP INLETS TO INCLUDE STORMWATER QUALITY MANAGEMENT STAMP AND SIGN PER CCAUSD NO. 421.

STORMWATER MANAGEMENT NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

ENGINEER'S NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

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LEGEND & ABBREVIATIONS
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LEGAL DESCRIPTION
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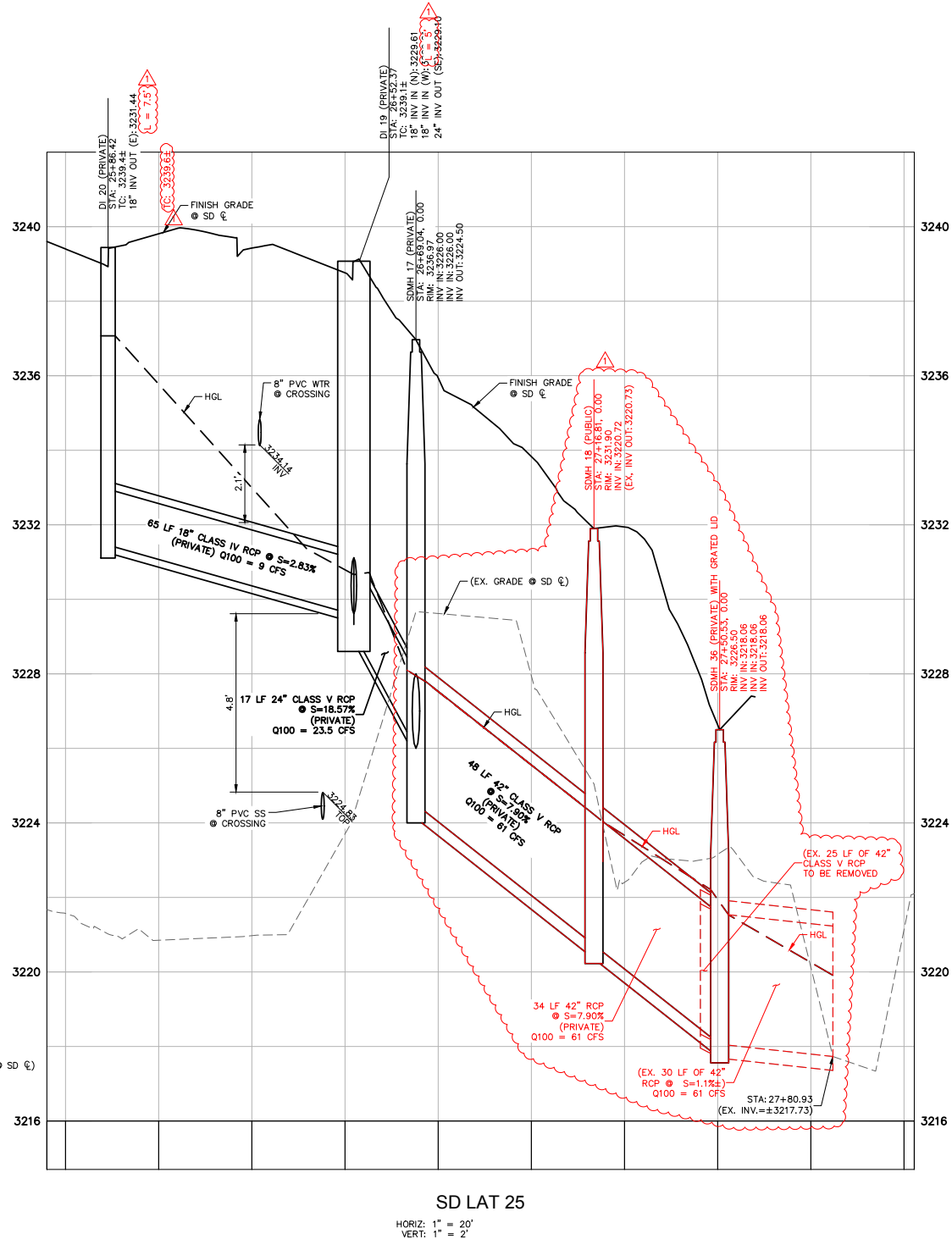
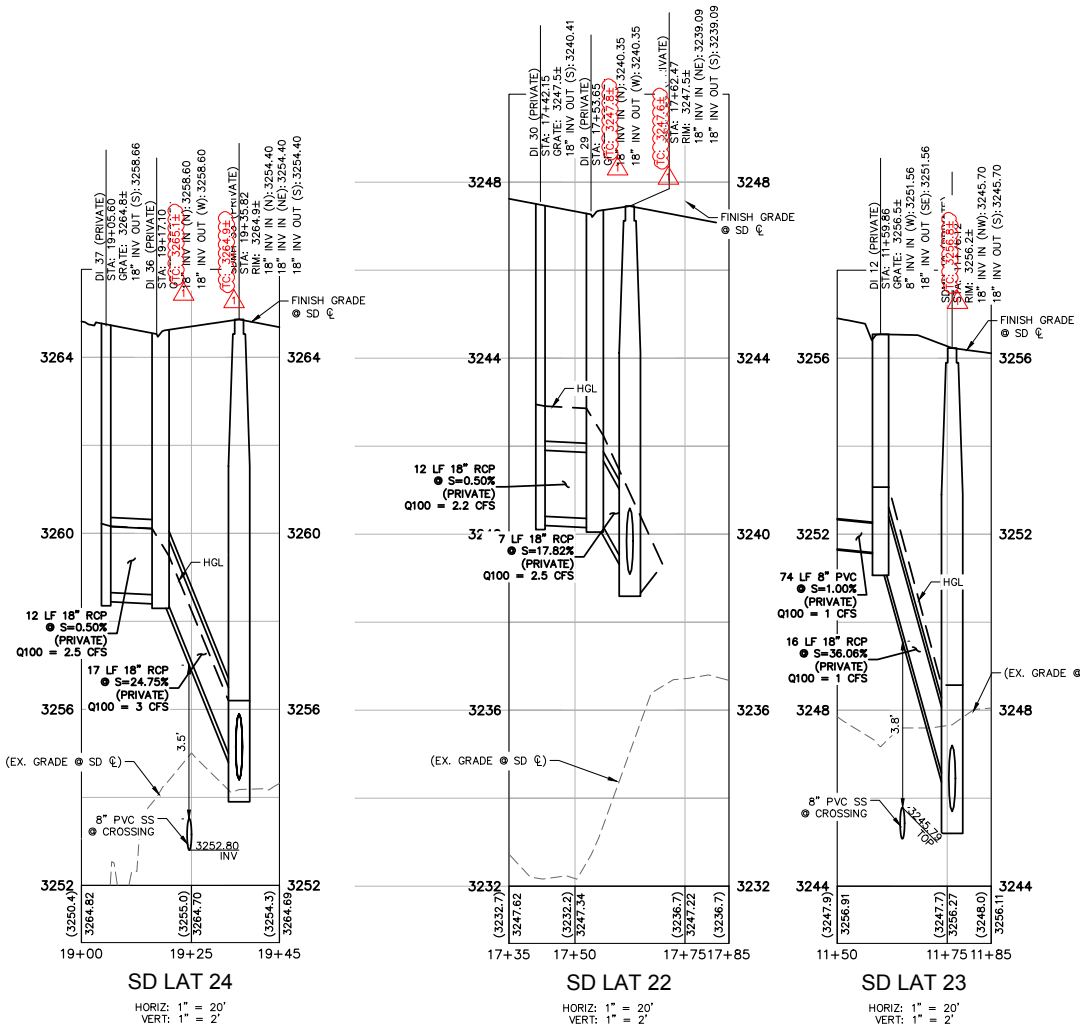
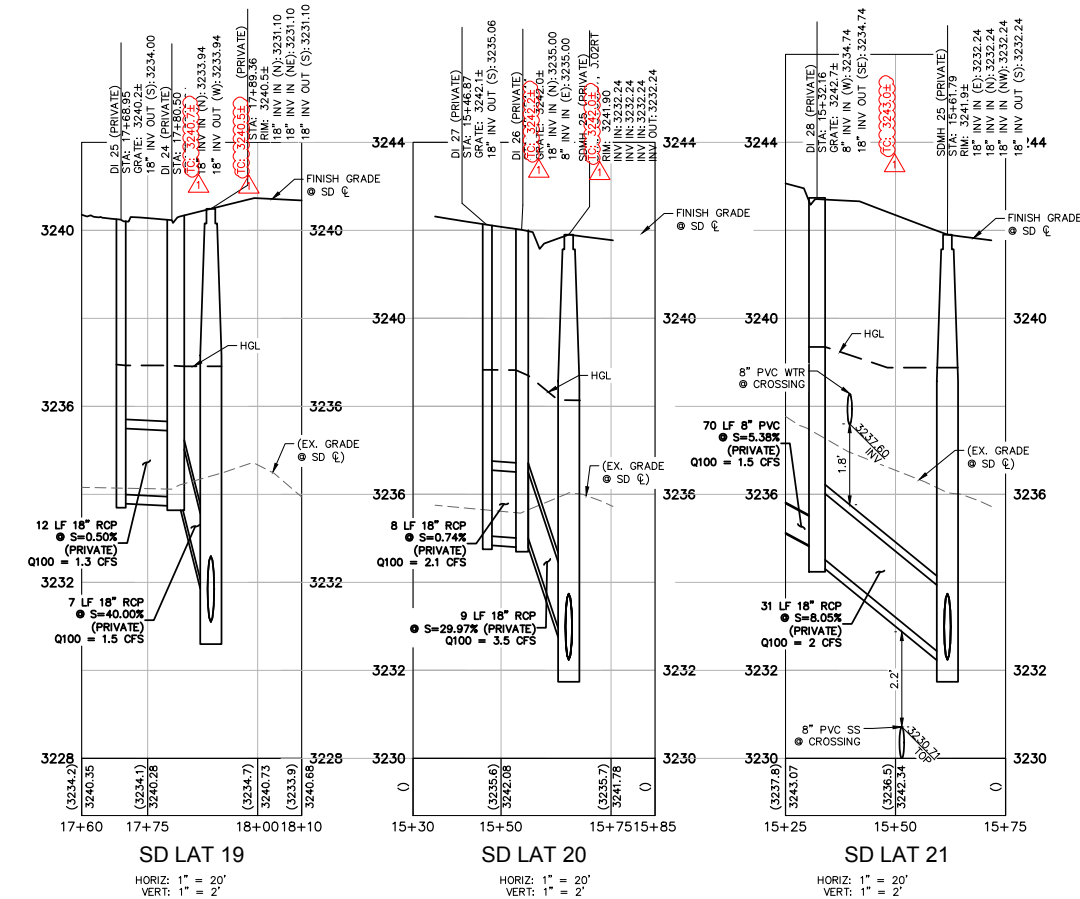
FAST
Call before you dig
UnderGround
1-702-432-5300
OR
1-800-227-2600

811
Call before you dig
UnderGround
1-702-227-2929

CLV#: L20-00433 107Y5137

HIGHLINE VILLAGE 21 - PARCEL I PREPARED FOR LENNAR HOMES	STORM DRAIN LATERAL PROFILES SHEET 1 OF 3	 KHA PROJECT 092935004 DATE 05/04/2021 SCALE AS SHOWN DESIGNED BY MK DRAWN BY MK CHECKED BY TC	KIMLEY-HORN © 2021 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119 WWW.KIMLEY-HORN.COM	REVISIONS No. DATE BY 1. ADJUST SD CONNECTION TO EX. FIELD CONDITION, ADJUST D.I. TO GRADES, ADD ENDS, DETAIL 05/04/2021 KHA

Plotted By: Kintner, Mike
Sheet: S63
Layout: C63
May 04, 2021 03:50:58pm
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STORM DRAIN NOTE:
ALL ONSITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOA.

STORMWATER MANAGEMENT NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

ENGINEER'S NOTES
REFER TO OVERALL GRADING PLAN, SHEET C2.0

FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN). AS SHOWN PER FEMA MAP, NO. 32003C2150 E DATED SEPTEMBER 27, 2002.

LEGEND & ABBREVIATIONS
SEE SHEET C0.3 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR LEGAL DESCRIPTION

BENCHMARK
PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
CITY OF LAS VEGAS BENCHMARK: 7LV09345W6 (REVISED 2008)
NAVD88 ELEVATION: 1,011.422 METERS (3,318.31 FEET)

BASIS OF BEARINGS
GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS HIGH ELEVATION ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FT/US)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)
SYSTEM: LAS VEGAS HIGH ELEVATION ZONE



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STORM DRAIN LATERAL PROFILES										
SHEET 3 OF 3										
HIGHLINE VILLAGE 21 - PARCEL 1										
PREPARED FOR LENNAR HOMES										
CITY OF LAS VEGAS NEVADA										
52 OF 66 SHEETS										
C6.3										

